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R.L. Mumme 1983

Hastings Reservation

Melanerpes formicivorous

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1983	R.L. Mumm	e		
		Melanerpes f SNAKE EXP		
	Plague			
3 June	1 meter be	E: Gopher snake		about
	Nest stage	<u>eggs</u> , ~ 8 da.	y 5	
		by 8521. Let		discovery
		Inte-sity	Persistene	of 10 min intervals within 5 meters
	0521	5	100 %	
	2494	3	30 %	
	9496	3	30%	
	8721	0	O	Notseen
	8723	0		Notseen
	8521 d	ove swooped, + struck	the snake unaba	ted
	throughout th	e 10 min. 79 pers	ched near the hole	e +
	tarritted,	but never dove or	the snake.	
	0 No resp			
		tions, no approach with	hin 5 m	
	2 "	approach with		
		1.1		

3 -- " 1 m

4 -- Brief contact, www <5 times

5 -- extensive contact 75 time

		ī	

M. formicivorus SNAKE EXPERIMENTS

Road 3

3 June Start 1315: Gopher snuke tied to branch opposite + beni-d nest branch, ~ I meter distant

Nest stage: 2 Nestlings, ~ 15 days old.

Time todiscovery: 8:54, 8654 finds snake.

Let run 5 minonly (snake looked like it

was in trouble

	Inte-sity	Persistence
7265	0	O Notseen
3654	4	100%
7710	4	80%
	0	6 Notsee
8792 9794	0	O Notsee.

\$654 made 4 contact passes at snake, \$710 came in 7-min later, made 2 passes. No sign of the other adults.

M. formicivorus SNAKE EXPEREMENTS

1500

3 June Start 1415: Gopher snake tied to Wark

nest branch, above + slightly below hole,

~.75 m away from nest hole. (Snake

very inert, wiped out).

Nest stuge: 3 eggs, ~ 8 days old

Time to disovery: Wash Man 17:55 9601

entered hole showing no interest in snake

31:45 8297 replaces 7601 no interest 8297/ears 45

56.20, ? e-ten, obviously saw snuke, no response.

Entersity Persistence

8297

0

0

Notseen

9818

0

Notseen

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		4.	
		· .	

6 Jan Watching from Buckeye, 1230-1300, I see the BNB and flarkleft eye in the grandry, but nobody else. Jav 801, not seen since the day he tledged, must certainly begone. The 2 birds flew across Mudrone Canyon toward Buckeye at 1300. * * GROUP UPDATE ** 17 Jan 1801 disappeared 20 July + 1 Month. Last seen fledging by Molly 20 June. Probably gone when I watched there 16 Aug. While wandering around Buckeye looking for Buckeye birds I pick up a 3 NB and a 9 NB with a dark left eye in the flat below (north) of the 79 Buckeye nest hole (e-tainly these are the Chongo birds. Surprise, Surprise, Ather Flushing a Sind out of the 82 nest hole in the grown, at 1630 I climb up and find Teggs (!) including I runt (!!), leading me to suspect strongly that there is more than & dark left eye here Eggsquite Fresh, ~ Iday De-ise reports SHill 99753+ 755 here. 22 May Nest check, 1515. Of the 7 eggs, (larund, lused in the-morouple problem,) 5 hada chare to hatch. I fond 2 nestlings ~ Iday, 2 unhatched & apparently infertile eggs, and leggwith still a charce of hatching, This clutch hatched late, because i-cubation was apparently delayed for a day or two here (see Walters notes

Jue Walter reports failure, Acad nestling inhole, absence of acorns,

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M. formicivorus

Chongo

29 June ** GROUP UPDATE

Of PNB dark left eye disappeared 8 April 1983 ± 1 months

Last seen at Chango 8 March, certainly gone by

9 May when clutch of 7 eggs found, but probably

gone before that.

20 April 1983 ± 2 weeks -- Last seen at School Hill by Philip 6 April, first at Chango 10 May, but probably there by 20 April.

Chango ABANDONED fall 83



Hustings Reservation
BIK/CBI-Red Buckeye 6 Jan Walked up here, 0930. As I walk up, I see \$666 chase a FNB mildly from the granary. The FIVIS Flew to a tree just 10 m from the granary, but 9666 did not pursue. However, 15 m later the QNB returned to the gravery whereupon 7666 chased her again. This provides some insight into why a new q has not immigrated here. Looks like we could have inbreeding. Also a 5 m/ was nearby during the above chases, and he showed no response 7664 Whoa in the gra-any together are 7666
That 106m 166m and a 7NB! Maybe there is a new ?! 7666 took a brief peck and unk at the PNB but then they sat peacefully together for a min before the 2 barded 99 few off, and 9NB followed. At norst, it looked like a domestic squabble.

** DBlue/Yellon-LBlue Otherwise, very slow here. 6252 confirmed, but that's all. will have to try again later, and see if this ? is i-deed in the group. 1200, 4NB is back alone in the granary, looking very much at home. 17 Jan * * GROUP UPDATE * x 1982 1) 7483 disappeared 10 May = I week

1) 7483 disappeared 10 May = I week

A \$100king out of the next 1 May was probably her.

Next had failed by 24 May, and \$483 never see.

after. Last confirmed sighting was 160ct 1981

2) \$\frac{9}{100}\$ MB (876) moved here 20 Nov 1982 \(\frac{1}{2}\) I nonth

Definitely not present 5 oct, First seen here 6 Jan 83

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20 Feb Watching from blind, 0950: Beautiful, warm, sumyday. 1150, Very slow, only 6252 and 7# 666 see. Those two fairly conspicuous, even though not a trace of any Other birds 8 March Perhaps Foolishly, I try here again, also 0950 on a beautiful Sunny day. 1120, Finally 6252 DBlue/Yel-Colm and 41876 Nobands put in a brief appearance So there is a new UB q at Buckeye! She and 825) perched together in the granary quite happily allcit ~ 3 meters apart. I'm starting to worder about 0234 and the other of holpers, J663+ 0665. 0665 used to be about the most conspicuous bird here. 1240, After wardering around to the NE (past the 79 nest hole on the ridge beyond the 79 hole I finally white 1061-1600 Phack/CBlue-Ra Pick up 9664 161-1660/m \$ \$1666 81k-Ray/m, and 3663 M/Ourn-BPAK(N) So they are still around. Are they still group menbers, or have they been forced to the periphery by the new & and 8252 (I suspect the former). Also what about 3234 and 3665? They may be gone but more watching clearly needed here Branch One last time, 1700 till dark. 1745, doing better! At one point 9NB, 8252 9666, 8663 all in the gravary! P666, 8 663 and FNB EN- perched together with no sign of unrest. I'm now 95% sure that 334 and 3665 haveindered disappeared. 1800, Another bout

of activity that the 7664 plus the 4 above. I'm sure that

this is a complete cersus

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Buckeye

5 April

1983

Group update **

1 8234 + 8665 disappeared 20 Nov 1982 - Inventh

Last seen 5 Oct both missing blan.

18 April

Watching here, 1545, for signs of mate guarding by 3252 and (hopefully) 0663.

1730, pretty good watch. 8252, 8663, 7664 9 NB all seen well Conly 9666 seen recently at the Blomore Pone-struggle) is nissing. Certainly no evidence of mate guarding. FNB spent long periods alone and one moved away from 3252, who failed to follow. 6252 also spert long periods dlove, and one moved away.

The only worrisome thing the is that I nevesaw the bird in the gravary: When they were around, they

were always in the tops of the Valley Oak to the south of the gra-ary. Several times Fraw PNB+ 8252 Fly

off to the south from that tree, ad I saw fWB +

8252 together only briefly, could they have a nest

already? I will go look a oud over there.

3 June After Da-ise reports birds in the low grawy hole

I opa it up + find 5 eggs including one runt,

~8 days old. This is probably Buckeyes scrod

nest. See Susais + Derises notes

29 June * * GROUP UPDATE **

1 8665 returned ~ 1 May 1983 -- First seen by susan

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M. formicivorus

Buckeye

31 July Watching here, 1640: 1740, Nothing. I also check apon all the holes (just in case) but nothing those either.

7 Aug Finally, a good watch up here 0710-0840. Here are the highlights: (D & 252, 9NB, 9664 + 0665 all see very well (D) The had news is that 8252 has lost his Left (metal banded) leg, so he is now a look-alike of 858 at Ugate, Too bad, but he seemed to be gething along Ok without it, However, that may explain why Buckeyes two nests (or at least one) failed. (3) a UR Juvie was hanging around getting chused a Lit, but he clearly did not belong to Buckeye. (4) 0840, Seen the above 4 birds sowal times now, + nobody else. All 84 together in the granary at 0830: 9666 (not seen since March) must certainly begone, 8663 probably so.

Buckeye not abandoned full 83. By spring 84, contained only 3252 and 3665

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M. formicivorus

Buckeye NESTRECORD

Blune Reopered old 81 nest hole (low hole in granary) 6830: Jeggs, one a runt, ~ 8 days old Duly Here to band nestlings 1/30 I Find nest completely empty

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500n.

Melanerpes fornicivorus

Hastings Reservation Plaque ** GROUP UPDATE XX 17 Jan 8660 moved to Pipeline 10 Sept 1982 - 1 month Last seen at Plaque 16 Aug, missing 5 Oct, First seen at Pipeline 270ct. 4724 disappeared ~ 10 Sept 1982 = I month Last seen at Plaque 16 Aug, gone by 5 Oct. Watching here, 1430 - 1600: 3521, 8494, 8496, 8721, 8723 all seen well and repeatedly, but conspicuously absort was 8473! Nosign of him in the 12 hours Not totally convinced he's gone, but it doesn't look good. First spring granary census, and first water to see of any sign of nesting. Mana Doesn't look like nesting is imminent. B'SZI+ 7494 acted quixe indepedent of each other Calthough that may not mean anything now that 8473 is gone an no evidence of interest in any holes Calthough the birds sport about 20 min around MacRoberts. 0115 seenell plus two interesting intruders: \$787

Red-Yellow/M (1600) Tel-wht/Red-wapt 1800 ad 9710 DGm/m of Road 3. 4April Routine granary crosus, on back. All 5 birds seen. 17/50, Plaque has a new nest hole under sonstruction, in the 2 granay facing the creek. Anice hole. 1500, I climb up and peep in, no eggs, but starting to look pretty good. Very thick wood, unfortunately, but the hole doesn't look too deep. I'll have to open it

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31 March 1983. Plaque grandry natch
                                                             defi-st
                                                        1404 8521 Titmouse
                                                       1404 0'521 /1tmouse ),
1415 9494 9287 (1800.)
1350 7496 8494 1° | 8 gan 20
                            20 1872330
  55 9444
             1018521
1400 $723 WS JS21 8494 1° 1
05 8723 WS 8494 1° 1 JS21 2°
                                                                    9710 (Ra3) 102
                                                       1505?
  16 8723 8494 8521 101
  15
 20 2494 10
25 8521 10
30 8521 WH 10 1
  35 3521 10 1
  45
  50 nobod 1
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  55
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   05 11 10 9444 87238721 11 9496 20
  15 0 6723 8721 10 19494 9496 20
  25 8721 872310 | 8521 2° 9496 20
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   25 8 723 WH / 8721 8494 8521 10 8496
   30 8723 7496 WH 1º1
   35 9496 3721 20
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  45 $496 20 $521201
  50 8521 WS 10/
   55 94949496 201 BS21 8723 WS 10
1300 all 510 (9496 + 0723 WS)
   05 9496 8723 WH 10 8721 10 P
   10 $ 170 body
   15
   20
   25
          1 (
    30
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Plaque

5 April

XX GROUP UPDATE X

1 d'473 disappears 4 Jan + I month Lastser- by Alan 17 Nov, missing 19 Feb

1700, I opened the new hole, and found that it has a long way to go yet. Not very deep, very rough, ragged bottom.

Routine granary census, 0820-1020, save for an interesting intruder (7815 of (UZ)) Only 8521, 9494 \$496,

Also, birds are still very much committed to the new hole. Never saw anybody fly up toward Adobe & Buckeye Hills, and saw several trips to the new hole. Only suspicious thing is that the birds co-tinue to make a lot of trips to the Big Blue Oak + MacRoberts. Will have to make some nothing is going on over there.

7 April Checked the hole here, 1230, found it shaping up, but still not ready for eggs yet.

10 April Checked the hole, 0830. 2 birds flushed as F climbed up to the hole, but the bottom is still pretty rough. 12 April Budnews, we blew it again! I lad Philip watch the hole here from 0610-0845, ad her recorded a pretty Steady Stream of birds in tout of the new hole. Iclims up ad find Beggs marked O-3! 11 April (and

maybe 10 April) were undoustedly the critical days. Ohnell, we live + learn. Fin surc both 99 laid today.

Tossing may have occurred yesterday.

6 April 1983 Plaque granary rensus

0820 9221 8484 8481 10 defense 25 8494 20 | 8496 8521 10 0825 9494,8496 PNB 30 8521 9494 9496 10 35 9494 10 0830 3521 Passerine 40 9444 8521 10 CAOS 8521 11 45 9494 10 852110 PNB 1000 9494 50 8521 WS 8494,1 1010 84948496 9815 55 852110 / 9494 20 (M / Lbin . Dbn) Dbin . Llan / Lbir . Dbn 0900 2496 WS 10/ 2494 8521 10 05 74968521 10 10 9496 10 15 9496 10 20 7496 10 25 9496 8521 10 8723 20 35 8521 8723 9 6494 20 t1 (1 ±1 45 352110 1 9494 20 50 5521 7494 2° 55 852/20 | 8494 10 1000 • 11 1 11 05 OS2120 | 94949496 1 20 8494 94968521 10 8733 20 15 9494 8723 ws | 8496 20 | 8521 10 200

Plaque

14 April Checked the hole of the 1415 (Walter Found

5 eggs 13 April). 6 eggs. Is the clutch

Now complete?

15 April Checked the nest, 1630: Still 6 eggs: Prosasty all over here.

18 April Walter removes the beggs from the nest here.

26 April I return from Berkeley today + Denise reports

trutual trom Berkeley today & Denise reports

that while watching the Plaque nest hole today

Slic Saw a & Fly out at Ob28 (early!) carrying

an egg. Unfortunately, we don't know who

laid it or who threw it out. Unfortunate, but

maybe we'll be lucky tomorrow. See Philip

+ Denises notes. Philip checked the hole to

found it employ sometime yesterday morning. See Philip

+ Denise's notes fordetails.

27 April Good weithat Plaque! Basically, both 44 laid simultaneously Setures Obso and 0720, I normal egg, one runt

Emeasured the eggs + fin contident that the normal egg (27.2 x 20.3) was laid by \$494 (see past years egg dimensions) and the long narrow runt laid by \$496

(21.2 x 14.8) 7496 always lays 10-g, sking

Anyway, Philip+ Iwatched more, 7496 removed

botheggs, the ru-t first at ~ 0850 man followed by the normal egg ~ 1020. See Philips notes

for exact details. I saw a bird fly out with the runtegy ~ 0950, whereupo-it was carried to

27 April 1983 Plaque egg tossing watch 0545 Start watch 0649 9496 enters 0652 \$494 enters 0653 8521 looks in 0656 8521 e-ters 0700 8521 leaves 0711 8521 e-ti-s 0723 9 looks out, all 3 birds leave 0730 Checkednest Zeggs

1) 27.2 x 20.3 (shape suggests 9494) (3) 21.2 x 14.8 (shape " 9496) (2) 21,2 × 14,8

Mary Plaque

(27 April) the main gra-ary. This bird proved to be 7496 and I saw her eat some of the egg for about 1-2 min before Blying off.

> Philip reports that 8496 took the normal egg to the main granary, but wasn't sure what happened they after that

Boring egg-laxing watch at Plague. A & (9496?) was in the hole when F arrived at 0615, and after she 18ft at 0627, Lelinbedup to the hole + found a 7496 - shaped egg (25,4 x 18.4), Nobody returned to the hole before QUE 0830, at which time Denise relieved n.e.

Is one of (9494) taking the day off? Could she have laid elsewhere, (Ichecked the 82 hole (empty) and Bos Berry told me there was no woodpecter activity up in the canyon area? It's also possible that 2494 laid before 0600 and 7496 threwit out, the laid herself. I'll try to get here earlier tomorrow to see what time laying

1045, Denise has reported both 99 in the hole done twice each, so it looks good that 4494 dld not lay today + will not toss \$496's egg.

29 April Good day at Plague! Both 99 lay (secreverse + nest record), and yesterday's egg (by 7496) remains, meaning no reciprocal egg tossing by 7494, even though she had ample opportunity

28 April 1983 Plaque egg laying

0615 9 (hairline mustache, bump near eye
looking out (9496?), "thopicies" of mustache)

0627 9 leaves, checked hole

0639 Lack in blind, 25.4 x 18.4 egg in Mark hole

0830 Relieved by Denise

Later nations proved that
this 2 is indeed 9496

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29 April Plague egg laying
0555 start, hole empty
0621 9496 enters
                                    7496 lays between
         1.0.
0626
                                          0621 + 0644
         5. d
0626
         1.0
0630
     5. d
0631
         1,0
0639
0640
0644 2494 comes to hole , $ $496 leaves
     7494 enters, 8521 enters
064$ 3521 leaves
0658 9494 1.0.
0659 9494 leaves
  Checked hole, 2 new eggs @ +3 25.9 × 19.0
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	Plaque NEST RECORD
26 April	Somebody laid + egg + Somebody carried off an
	egg early this morning. See Denise's + Philips notes
27 April	Nest checked 0730 after visits by both 99: 2eggs
	1) 27.2 x 20.3 (normal, prosusty \$494)
	@ 21.2 × 14.8 (runt, prosasty 9496)
	Both removed (the ru-t at ~0850 the normal ~ 1020),
	by 7496. Runt eater by 7496, possisty others (?)
28April	Nest checked 0630, 1egg, many laid by 9496 for sure
	D 25.4 x 18.4
29 April	Nest check 0715 3 eggs
	(2) 27.0 x 20.3 (9494?)
	(3) 25.9 x 19.0 (7496?)
30Ap-11	Wulter report 5 eggs.
1 May	Motcheck, 1015 7eggs
	(\$\frac{9}{26.2 \times 19.3} \left(\frac{9496?}{\text{1 aid 30}}\right) \laid \frac{30}{\text{hatch}} \frac{6}{26.9 \times 19.9} \left(\frac{9494?}{\text{9494?}}\right) \frac{\text{April}}{\text{hatch}}
	(5) 26.9 x 19.9 (2494?)) April
	6 26.7 × 19.7 (7494?) } laid 1 May 5 26.2 × 19.1 (7496?) }
A .	(26.2 x 19.1 (2496?))
2 May	Nest check, 1600, Gues Zeggs, clutch complete May
May	Nest check, 0745: Heitching is starting! All 7eggs,
	but (1830) Egg (2) has hatched (nestling marked
	1830, Egg @ has hatched Cnestling marked
	with blue sharpie. @ Appare-tly infertile. All others
	have a charce of hatching
Dray	have a charce of hatching 1140, thestlings eggs ((pipped) + ()
Nest failed 6	Nestlings from (1) (3) +(5) all marked blue left
tlings. see notes	leg. Nestling from @ remarked blue right

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M. fornicionus

Plaque Checked the tole 1015, 7eggs now, dutch 1s probably complete, 4-3 in favor of \$496! Disappointing developments here, at 0900 FFind Hou nest has failed! 6 nestlings (from all but egg (9) found dead in the nest. Swarming around the nest hole and over the dead nestling were those nasty, formic acid oakants, the same species that may have contributed to the demise of the 1980 nestlings = last checked the hole on 12 may, who 4 nestling egg (6) (pipped) + (5) whe present. It looks like the Plague nestlings have been dead only for a day on so, and One of the nestlings had grown quite a bit from silve I last Saw him, SOF put the failure date at 14 May Plagne Still has some acorns (not man,) so I don't know what to attribute the deaths to: (Starration, thenants, @ ants, or (3) ants, abandonnet - starration. Itard to say for sure, but I suspect (3) 21 May Routine granary census. Not much interest in resisting asfarus trantell. 3521 madea quick visit to theholy, but that was it (unless they are interested in the cargo After seeing binds , the Plaque nest hole, at

27 May After seeing birds in the Plaque nest hole, at
1530 Iclimb up and find beggs, which I
humber (I'll measure them later). Only interesting
thing is that a q dive bombed me while I was checking
the nest tere-brushed my head! Late nest, notwern
chare of recesting, high defose mate

21 May 1983 Plague gra-ary Crosus 11215 8521 10 20 nobody 25 1 30 11 3535218721949619 40852184949496872310 45 9494 8721 WS | 9496 8521 8823 all 1° 50 9494WS 8721 55 8721 20 1852110 1300 3521 872310 05 9496 8723 10 3521 10 defose 1255 9496 AW? 1 15 9496 3723 10/ 9494 20 20 94963723ws10/05211° 25 949420| 30 9494ws 852187219496 10 35 8494 ws 0521872110 40 8721 10/ 45 8721 10 1300 Mobbelly 74961° 10 7496 P nosody

	Plaque
5 Ju-e	Checked the hole, 1730: 7eggs stone cold!
	Hasthenest been abandoned? It was active
	Friday when we did a snake experiment here.
	Anyway, the 7 eggs measure out
kan barra ku kush dan ur	025.3×18.9 (496)
	2 26.3 x 20.1 (494)
	3 26.0 x 19.1 (4961)?
**************************************	(494)
m daar garmin sirrii wa wa wa 11 wa 11 ka 1	5 26.2 x 19.9 (494)
h, he appropries the second second second second second	6 26.4 x 19.2 (496)
	7 26.2 × 19.7 (494) laid 28 May
	Isuspect that the snake expo-inert may have
and the second s	directly caused abandonment. Also, the birds have been
and the second s	making do lot of Karrit noise Here I wonder if
	3521 has disappeared.
15 Ju-e	
17 June	
terreductives share 14.1 to the samp articular assumption a conf	7496, 8721, 8723) ser-well
1 July	Wow, strange goings - on here. Around 1200, while walking
	down from Buckeye, up in the vicinity of the 81
erronaldanista () ganga () haraya ng	nest tree, F find 8521 sitting next to a banded
a manufacture from the designation of the first state of the	Juverile! In the late PM (~1800) I watch and Find J889 of Pipeline M / White Green! Amazing!
	Find J889 of Pipeline m/white Green. Amazing!
	This juvenile wandered a full mile up the canyon
	and wound up on the territory with his grand papents!
	(8660, so of Plaque, is the breeding of at

17 June 1983

0900-1100

0900 \$494 WSP

05 \$494 20 | \$521 \$496 10

10 \$494 20 | \$521 \$496 10

15 \$4948521 \$466 10

20 \$494 10 \$496 10

25 \$5521 WS 20

30 nobody

55 \$521 \$494 \$496 \$723 10

1000 \$496 \$721 P

1005 8721 8723 WH 2494 1°
108723 WH 2494 1°
15 8723 1°
208723 1°
258723 1°
308723 8721 2496 1°
35 hobody
40 ~0,50dy
45 0,005 bdy
50 8521 3°
1100 ncbody

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a fewacors still presun
8 July 1983 Plague grany 14-505 1430-1630
1430
                             1535 8723 8496 10
     nobody
                               40 87231° 9496 WH 2°
  35
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                               45 8521 201 7496 872310
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                               50 852110
  45
                               55 hosody
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  55
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  258723 Sancia up 8721,0
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 9 July 1983
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                          hobody
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30 9496 8723
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                      40 nosody
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   50 "
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   55 9496
                      55
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              1155 - 1355
 10 July 1983
                       1300 9446 8723 10 18521 20
1155 352110
                         05 8521 EA, 9496 8723 10
 200 249610
                         10 8521 9496 8 723 10
  05 941610
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   80 94960521 10
                         35 nobody
   35 57219496 10
                         40 hobody
   40 8721 10
                          45 notody
    45 2496 10
                               - [1
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1227 9496 Grown Squirm 1 1220 9496 NWHANISWY)

55 1

Bluesins

12Magasagagasisel

50 3521 10

55 9496 10

detase

1217 9494

Plague

(20 July) Avery interesting watch: \$\mathcal{O}\$ &660 is here with \$1889, both present throughout the watch. So it now seems quite a bit clearer that \$660 introduced" \$1889 to plague.

(2) \$521 fed \$1889 4 times, but never by any of the other birds, felluding his father, \$1660. In fact, \$2496 still has a moderate - strong dislike for \$1889. \$496 chased the juvenile \$9\$ times (at least) during the watch. (3) Sawavery strong, vigorous dominant interaction between \$521 x \$1660. Much pecking by the former, much chattering by the latter.

21 July \$100 granary cross \$105-1305. Only \$496 t \$7521, plus an intrusion by \$787 of 1800.

Plaque not abandoned fall 83, By spring 84 however Plaque contained only 8521, as he chased helper 88 and 9496 away as acorn supplies duindled.

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21 July 1983 11205 - 1005 Summer grandy consus
                            1210 nobody
1165 nobody
                              15 "
 10
     - 10
                               20949610
 15
                                25 11
 20
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  40 OS21WS 10 (9787, +00)!
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  45 8521 10
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  55 9496 WS 1° 8521 10
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(2496 not around)
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 22 July 0715-0915
                                 7416 chases
                                                  1
0715 85217496 J Mals 889 1°
                                    0820 0060dy
                                      25 0 521 20
  20 8521 2496 1889 18
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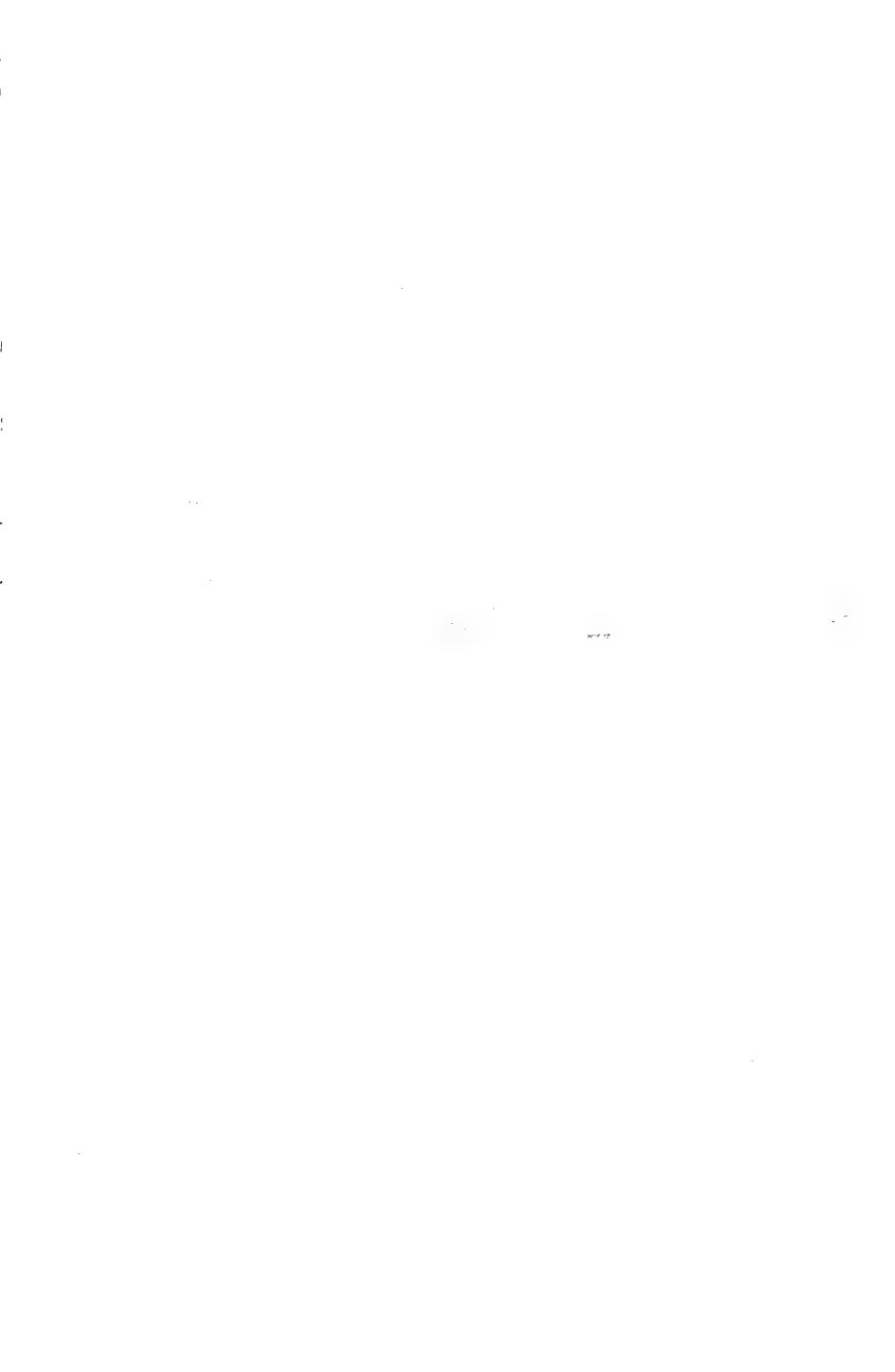
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Hastings Reservation-** GROUP UPDATE ** O 7848 banded as Adult 30 Dec 1982 Walking by 1130, I flush 3 birds, which prove tobe 8669, 9848, and not surprisingly, 8754 LGm/Wht-136m of SHill, Everyone looked quite friendly. 5754 is probably "just visiting" but we'll keep a close watch 1 April Walking by 1 April, I Find 8754 wht-Don/m of SHill in the gra-ary, then 10 min later working on the half-completed nest hole or the Knoll! Is he moving here for good? 26 April Weind Semi power struggle flaneup hore, 1700. 3 1800 77 (785, 786, 787), 2 1500 77 (675, 818) int-udi-ghere. At first it looked like the 1800 Ffuere winning ad no sign of \$848. However arous 1725 + 848 finally should up, ad with the help of the two 38 669+ 754 (!) the manage to regain control of the granary by 1730. The 88 were veractive in a chosing the fintaders. Also sawa story 6'669 77 8754 dom intraction 11 May Suinging by 0780, I see 3 birds (1), and I'm sure the extra is 3754. Flue seen hime off xon here all spring, and I'm beginning to think he belengs. * * GROUP UPDATE ** 29 Ju-e 1 7848 disappeared 830508 + Incet: Lastsee- 26 April, replace by 9675 on 20 May. @ 7675 moves here 830508 # I week:



Y

Y ABANDONED Fall 83

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1500 17 Jan XX GROUP UPDATE XX 8677 disappeared 25 July 1982 = 2 weeks Last seen at 1500 1/July missing 7 Aug 21 Jan Flushed 5 birds here, walking by at 1310 19 Feb Aquick book here at 1100 produces a complète census: 8297, 8622, 8601, 8675, 8818 all seen well. Looks like the birds are still harvesting acons from some Live Oaks up the draw. 1 this Philip has reported 1) strong mate guarding and 2) an interest in the 79-81-82 nest hole. However, Walking down the lane at 1500 hrs, I flush a bird outofa new hole in a thin dead stus overhanging the lane (a Valley Oak) Back at 1700, I openup the back and find one egg, marked #10. Hole is very fragile, a-d may not survive long 22 Jule Thonests' failed in this hole: See nest record. ** GROUP UPDATE ** O 7675 moved to Y 8 May 1983 = I week: At I for sure on 20 May, \$848 still at I on 26 April.

> 1500 ABANDONED fall 83, before mid-september (acorn cl-sus should no birds around)



	1500 Nest Record
1 May	
	Operedup new hole in dead stub of Valley Oaks overhaging lane. 1 egg.
2 May	Philip reports only 9601 in the hole in the AM,
	Philip reports only 9601 in the hole in the AM, walter reports 2 eggs, the First sacrificed for
	1xusation duta
3 May	1415, Still 2 eggs, D+D. Philip reported
	7601 in the hole this AM, but I guess she
as Market and State of the Control o	took the day off.
4 May	
	toud 3 eggs. See Philips notes et 7601's activities
5 May	Checked hole, 1700. Still @3 eggs. Is clutch complete.
	Checked hole, 0900. Beggs
14 may	Walter reports nest failed, two eggs with near-hatching
Ja-e	embryos found below nest on ground
2 May	Peepedinto neunestin same hole:
0.2	Zeggs ~ 8days (?)
2234-6	1230 Peepen in, nest completely empty, not sure
All	when it failed.

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Melanerpes formicivorus

***	1800 Hastings Reservation
20 Jan	Granary Census, 1100-1300. Good watch and a complete
	census (8476, 3347, 9193, 99785, 786, 787 all seen
	repeatedly). Even a bit of storing of Live Oak acoms hurvested
-	from the trees SW of the granary, and perhups along Big
	Creek, too.
	Decent grandy census + call count, D835-1035. All boinds
y terponomiana na postane netranoma del des ado	seen well though 3347 kept a very low profile. No
- A NAME OF STREET	storing
20 Feb	Granary re-sus, 1335. 1535. Details on back
\rightarrow	dominarie: 8347 chattered to 8476 after 8347 Fien
	to him. Pretty good granay (PSUS 88347, 476,
	9193, J47786 +787 seenell, but 9785 not
	arond for some reason.
22 Fcb	Funny goings on south of 1800. At 1145 I find a lot
	of waters + chasing going on, seeningly centered on the
	old falling-apart roost tree just above the deraying
	granary. Birds involved are a SNB, 29NB (apparently operating independently) plus, peripherally, 8790 Red/m
^	
->	of gate and of 754 con/not-Don of School Hill!
	One of the FNB and the BNB seen to have taken over
	the roost tree. The tspe-t a lot of time looking out of
	a down-facing hole in the free. The 8+9 wakad
-	afentimes, but not a lot. The other birds
	appeared to concentrate in the sycamore along
	the creek and the canyon just to the south of 1800.
	Surprisingly the 1800 birds were not contesting any of this intrusion into their territory,
	any of this intrusion into their territory,

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1100
                                         1205 7193 8476
     nobody
                                                                            Storage
 05 quagragas "
                                           15 $193 8476 WH WOLSON
                                                                            5476 111
  10
                                                                           2193 1
                                          20 $1938476 WH | $786EA | $785WH
  15
                                                                           8347 /111
       11
  20
                                          25 91938476 87858786
  25 91939787
                                          307193 8476 WH 9785 MA 19786WS
  30 P143 WS 3347 9785 9786 9787
  35 91939 P785786787
                                                                            8 total
                                           35 4767
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  40 8193 | 8785 9787 WS
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                                          45 4143 8476 8 347 8787
  50 8476 9193 WH 1 9785 8787 5347
                                           50 11 11 11
  55 3476WS 9193WH
                                           558476 53475A 14193 WIT
 1200 P193WH 6476
                                         1300 943
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1800 granary vensus
 19 Feb 1983
                                  0940 3476 7193
0835 7193
                                    45 PA3WH 81476
  40 2/93
  45 $193
                                    50 mg $193
55 mg $193
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55 9193 EA
                                  1000 8786 FA $193
                                    05 9193
0900 7193
  05 9193 8785
                                    10 9193
  10 7193 7785 7786 8476 4787
                                    15 8476 $193 WS
20 11 13 347
  15 9193 9786 9787 8476 20 9193 9786 9787 8476
                                    25 7193 WIT | 8476
  25 $193 RAMES $7870476
                                    30 11 11 1 11
                                    35 11 11 11
  35 MANNINATURANTA 3476
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20 Feb 1983 1335-1535

13-35 mobody
46 "1
45 "1
50 "1
55 "1
1400 "1
05 8474 EA
16 2193 8347 &476
20 2193 8476 WS | 8347 2787
25 "1 "1 "1 "1
30 2193 2786 8476
35 8476 WS 2193 W H 2786

14 40 9193 | 8476 WS 45 8476 WH | 9786 | 9193 WS 50 \$198 8476 WH | 9786 \$5 9193 WH | 8476 9786 WO 1500 \$193 10 \$193 WS 8476 15 \$193 MA 8476 9786 9787 8347 20 \$193 8476 WH 8347 WS 30 \$193 8476 WS | 9786 35 \$193 8476 WS | 8347

defeise:

1428 8476 7193 7787 65 1 1435 9193 65 2 1530 9193 9786 Stelday 1

1800

(22 Feb) I'm not sure what the big attraction here is Certainly there are a few usuble storage holes around, but nothing to write home about. Thre are still acors in the live oalts along the creek (Stellers + Scrub Jays visiting these trees frequently). It's also a very warm, sunny, amazingly spring-like day, too.

This situation warrants further attention

1215 Just saw 8723 Dom-BRH(N)/LPink here chused a bit by a 3 NB in the valley but at the base of the "Ist caryon". A Staq (both unbunded) were looking quite fole-dly there. 1230, \$753 Red-unt/LBlue of SHill also around. Quite a free-for-all. Very quiet now, though.

23 Feb Granary chosus 1040-1240. I walked by the scene

of yesterdays action, and found nothing going on. 1230, San 8476 excuvating a new hole in the old dead 1990 nest Stub. Fortunately, the hole is fairly close to the base so rope ladder tasteded above or extendin ladden Should work. Currently, it looks like the hole is 4 deep judgig by 34765 dipping. Freidontally, the 1981 nest hole hus Fallerapart: I found the cut , soulred + rotter

beneath the hole 3-4 days ago

3 Much Routine granary ce-sus, 1420-1620: \$193, 8347, 6476, 79785,786,787 all seen well.

26 March After anough + removal of 3347 lust week and shooting of 8476 yesterday, we have a moderate power struggle going on. At 1245, when F
get here, 8622 of 1500 (!) scems to have it

1800

(26 March) won! This is especially neat, since 0622 is a pretty sure breeder, since he guarded \$601 very closely last spring at 1500. Anyway, he is in complete undisputed control of the granary. I hear a couple of other birds garricking + wataing among the Live Oalts on the south ridge (2 8 NB according to Susan) but they appear to be no threat.

> 0622 may not be too keen on some of the f helpes. Saw him take a peck at 4785.

1315, a brief flurry ofactivity over in the 2° area (near 1500). I wander over and find a SNB chasing another 8. The 8NB was then chased in turn by 8622 (presumusly) and two other 1800 binds when he wandered too near the granary. Obn-BPak(N)/White

HISO, I see what has to be 7524 of Low Hay. Was she just checking things out, or does she have wanderfust, now that all the 30 at Low Hay are her sons.

3/March Uhoh, while doing a granay re-sus at Plaque at 1415 7787 intruded Yellow-wat red-white. Asign that

all may not be well among the 499 and the 3 Low

Hay Jo that moved in a few days ago.

1 April Checking up on things here 1530: Very quiet! All 7 6 Sirds (2193, 2765, 2786, 2787, 3770, 3771, 3724) see-, but no real action. Poiver struggle is OUER!

moved to me + moves to + chases orsquabbles 3622 greets greeted by mount 柳州 州州 2193 7785 111 HT HT 7786 # 11 2787

(Ithink!)

dominance, \$785 7787861

u Hay
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l 5
May.
`g.
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1800 ABANDONED fall 83. Probably your by
the fall 83 acor- consus (mid September) when Edefocted
no birds around.

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Hay Blom 17 Jan * 4 GROUP UPDATE ** O 0562 disappeared 7 Oct 1982 t 2 weeks Last seen 23 Sept, clearly gone 20 Oct 2 8571 moved here from 642ebo ~ 7 Oct 1982 Lastseen Gazelo De 17 Aug. Firstseen at Hay Blom alle 20 Oct 3 March Up here with Philip 1140. All 3 birds

Red-wit/Black, 9711 Milling 1140. All 3 birds

Seen well, 9604

and 5571 LBlue-Black/LBlue, 9604 + 9711 100ked very friendly together in the mistle toe tree. Watching here, 1095, seeing if these binds are Showing any signs of nesting. 1100, Not really. 5571 7604, 771/ all seen well, plus a couple of intruders (spillover from Low Hay no doubt), Didsee two birds fly over + perch outside the traditional fenceline hole probably in response to prospecting bluebide 1105 just as I'm leaving, 2 birds haging around and possibly visiting one or both of last years holes, he will have to be alert here 12 April Watching here for signs of nesting, 1045: By 1140, nothing much. But walking past again at 1220, I flush two birds out of the (ugh!) upper hole in last years nest tree. I would have much preferred them resting elsewhere 2 ruy Firally, Denise reports some interest in the traditional ferreline hole. Fope-it upat 1300, find no eggs, of course.

Hay Blom Whoa things happen fast here. Denise watched here is the tog det this morning, and she saw a shadowy figure of an ALV leaving the ferreline hole at 0630. Folimbup at 0715 and find one egg! Laid by somebody earlier today, but we don't know who. Derise + Philip Sta-1 all day watch of the hole and the egg. Egg measured: 26.8 x 18.7 Denise reports that 7604 tossed (sarried egg to gra-a-y, not known to be eater.) 1500 hrs. The egg is much longer + narrower than the eggs laid last year by 7604 (thenarrowest of 7 eggs last year measured 25.8 x 19.5), so I suspect that 4711 is the 4 that laid this egg. However, we will have to see what happers tomorrow. Good stuff today. 7711 clearly laid an egg this morning, and 7604 threw it out (again Carrying it to the granary, where she droppedit off and returned to the nest hole. Whether the egg was eater again unclear, but not important. What is in portant is that Poll was re-tainly the of that laid, another case of anatal territory & laying whindad has been replaced. See Denise's notes. Denise watches hore ad finds notody going in the hole. I checked it at 0815, finding it empt-1. Icherkboth of the farter holes, both empty 1000. 11 May HB lius pulleda fastone on us, See nestreco-d 12 Jane Nest failure hore, see n'est record



Hay Blon

20 Jule

New nest here: After seeing a bird looking out of the loner hole in the 1982 nest tree on 17 June, I climb up today thind 5 eggs, ~ 5 days old. Curiously, all 5 eggs were very similar in shape a suggested 7604: Did 7711 fail to lay? See hest record

19 July

Banded 3 healthy young, Juvs. 936-938. See caprecs.

Hay Blom ABANDONED fall 1983. In mid september, during the acorn survey, I recall seeing two birds (including one juvenile) in the granary, Itbadonnel probably occurred after that.

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and percentage of the control of the	Hay Blom NEST RECORD
3 May	Egg found at 0730 (26.8 × 18.7) (presumusly laid by
	2711) in Ferreline hole removed by 7604 at 1500 hrs
4 may	7711 lays at 0555, egg carried to granary at
	0630 o- so (see De-ise's notes) by 7604
5-7 May	No eggs laid, astaras to aryone could tell
11 May	Denise finds surprise nest in VO in Blomquist ranch
	700016-14 0000
and godge steps through contents. I see that the second section of the section of the second section of the second section of the second section of the section of the second section of the secti	1 25.6 x 18.6 4711? Surership guessed 50 eggneasurements,
get Service State Supporting analysis decomples and A No. 1, information	© 25.3 x 20.8 \$604 but separationis
MARIN STATE OF THE	3 27.9 x 17.7 9711 sodistinct F feel
failed to	
	(5) 26.1 x 20.3 9604
	6 26.0 × 18.6 7711 9604 9 26.8 × 20.3 Probably Freshest
MAN MAN NO E METAL REPORTED THE PROPERTY AND A SECURE AND A SECURITY AND A SECURITY AND A SECURITY ASSESSMENT AS A SECURITY AS A SECURITY ASSESSMENT AS A SECURITY AS	9 26.8 x 20.3 probably freshest
A PART OF THE PART	all of the eggs except (5) had enormous, lizarre aircells.
15 May	Checked the hole 1700, Still Zeggs
22 May	Nestcheck, 1800. 5 healthy, 3 day old nestlings
	(clutch must have complete on 8 or 9 May, at the
a Martin makkanda pada kari para para sa para kantaka sa karing panga sa	latest), plus egg & which failed to hatch. So
	nestling skew is 3-2, in favor of who I do not know
	Egg (9) contained a full-term embryo.
12 Ju-c	Uphore For barding, 1200: 3 dead nestlings.
	were ~ 15-19 days old at death. Hay Blom still
	has alors, too
	Bird looking out of 1982 second-nest hole
20 Jule	1000 Checked hole: 5eggs ~ 4daysold
	(measurements on buck)

20 Ju-e 1983 (cont)

- ① 26.4 x 21.7
- (a) 26.8 x 21.4
- 3 25.6 x 21,1
- © 23.8 × 20.4
- (5) 27.1 x 21.3

19 14/4 1983

Banded three nestlings July 936-938. Soe captecs.

Cower Haystack

17 Jan AA GROUP UPDATE XX

1) J772 disappeared 9 Aug 1982 = Dweek. Lastseen W July, Missing 21 Aug.

April Uphere to check out the post-power struggle activity (see Susan + Philip's notes). As F walk up at 0825 I find 9711 briefly in the watch tree before flying off toward Hay Blom. 8832 D6-/LPink of Blom I also in the watch tree, along with 9675 Gin-wht/pa of 1500.

0900, in complete control of the 1 + 2 granary are 7524 9587, and 3 & NBs, as reported by Philips. Only occasional intrusions into the 10 rd granates, and those intruders are quickly routed. They also seem to control the utility pole and the broken top tree. 8832 + 7675 still have the natch tree, but I

0915, betting the impression that one of the o'd here is not interacting with the others very much- we will, of course, have to band them soon in order to find out.

0940 also a couple of bird, Over in the 2° area, one of which isd FIVB

5 April

* GROUP UPDATE * *

doubt that will last long.

1)8461 removed 25 Feb 1983

2 3770 3771, 8774 moved to 1800 28 March 1983

3) Bunbanded 88 moved here 30 March 1983

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Melanerpes formicivorus

Lower Haystack

24 April Watching here 1230 for signs of & male guarding.

1330, looks like no guarding. Difficult to tell, but it looks like the flare following the 38 aroud. Twice the birds flew toward (n=1) and away (n=1) from the granary en masse of 5, and in each case it was a of that ted the group. Also checked the hole + found

28 April Susa-reports a runt egg tossed by 7524 (reaten)

29 April Susa- reports 7587 lays normal egg, tossed by

7524 (see her notes)

30 April susa reports \$587 lays normal egg; tossed + cather by 7524 (See her notes)

1 May 7587 lays another normal egg, tossed + dropped (Secause of Binterference) by 7524. See Susais notes

After Susan's watch, I try to get some mate guarding data, but things were very very confusing. Some Modata (touse the term loosely) can be found on the back. But the real highlights, were D Twice I san 0858 chase + perkat \$524. Those two are not getting along well. (2) At one point I absolutely certainly saw 2 ONB's perched together

In the granary, quite peacefully, too. Is he a b-other of these 33 that is just visiting or what 3) The (or one of the) ONB pecked had at 0'858 conceand also at 9587. 4 8858 may be guarding 9587

and a BNB may beguarding 9524 (I saw the latter couple briefly exchange mounts)

1 May 1983 Low Hay M6
0755 all 5 1° g
0500 9524 9587 BNB 8 858 1° | 8857 elsewhere
0805 9524 1°g | otherselsewhere
0810 8NB FT |
0830 nosody

	9587	2524
3857 MAF	1	1,
& NB MAF		1
BNB FTF	1	1/
8858 R	1	1
858 MAF		1
3 NB F		*

Low Hay (1 May) (5) 8857 appears to be out of it altogether. Avery co-fusing situation, to say the least. 2 May Walter reports to egglaving today Fwatch here 0540 - 0730. Both 99 nee in + out of the hole regularly, (7524 especially) but no eggs laid, Susan reports 7524 lays + tosses horself a runt egg, and the egg eater communally. See her 5 may Good stuff! 4524 lays normal egg, and 7587 tosses + eats solo! Reciprocal egg tossing from the same hole! See Susan's + Philips notes 7524 lays, + 8587 tosses, despite interference by 7524 + 3 NB. See Susais, Philips notes. No laying, see Susais notes Watching here 0540 May enti-, leaves 0550. 0606 9587 enters briefly 09 95240 tr-s 1.0' 0611 leaves 0616 14 9524 enters, 0623 leaves checked hole, 0700. Noeggs. Susar reports both 49 lay, 2 eggs 14 may 15 May Igetashock; Wade up here 1730 to "mak the new eggs, and F Find the nest hole Empty! What happened to the four (possibly 6) eggs that were here yesterday. I will have to watch here tomorrow 1810, while writing notes, wholelotta chasing going on

here. These birds have problems.

	·	•

1983

M. fornicivorus

Low Hay

16 May Watched here, 0545 - 6700: No eggs in the hole when Fichecked it at 0700, and only 7524 made 3 quick visits (though 7587 looked in a few times). Still donestic problems here: A & chased 7524 fairly vigorously or at least two amasimumocassian occasions

18 May 0545-0700, Lookslike we could be getting close here. Both 7524 + 7587 spet along time (~ 35 min for 524 ~ 20 min For \$587) in the hole simul -- Wow! Itado. Anyway, both 49 were in Simultaneously between 0625 @ and 0655. However, I did not see \$587 leave, and I thought she was still in the hole when I much to check at 0700. I found the hole empty. However while writing the above at 0715, I heard a big chase going on weekber (chase originated in the 10 granary) To my considerable Surprise, & looked up and saw two birds chasing a third bird that was carrying an egg! This bird was chased ent-tually to the 2° granary, where I was able to scope it briefly (a 7 for sure, but I coald it see the bands, while it ate a bit of the egg before flying off. - was able to climb up to the lind where the egg was deposited, and I fond a tragno-ted egg, all liquid gone but le-gth still measurable 26.4. It fellapart before I could get width.

What happered? Did à Play in a different hole! Did 4587 remove the egg when I missed seeing her leave DID I miss the egg when I checked the hole? We will have to Find out tomorrow.

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	Low Hay
	Philipchecked the hole this afternoon, found no eggs.
	Denise + Ficheclared the hole, 0830: 4 eggs, marker
	O-9 (3x 4) looked the frishest Maybe Low Hay
a change (both an analysis passages)	Finally hasit together.
	1730, Nestcheck; beggs
onema succession metabolism () had the same (O 27.6 K 21.1
	© 27.2 x20.6
. E Adaption from Editorio de Servicio de	(3) 27,8 x 21.1 damaged, Floating air cell
	(4) 24.6 x 20,3
	(9) 29.6 x 20,3 (5) 29.2 x 19.8 Failed to 7 laid 26 may (6) 28.5 x 20.9
9 Mari	6 28.5 x 20.9
HANKE HANKE	9 27.8 x 20.6 Measured by Susan
4June	Susan reports egg (3) has disappeared
7 June	Vestcheck, 1600. <u>Snestlings</u> , plus egg (5) which
and the second of the second o	failed to divelop.
29 June	** GROUP UPDATE **
	1) Another unbanded of joined group 830501,
	(Ffirst saw 2nd of NB IMay)
	(2) 857 (1styeur) + 8858 (AU) barded at
	Low Ita, 5, Susan 13 Manth 1983

LOWHAY ABANDONED Fall 83, No Sirds
present during mid September acorn crosus, so abundament
likely occurred before them.



Milanerpes formicivorus

and the second s	Gazebo
17Jan	** GROUP UPDATE **
	@ 8571 moved to Hay Blom ~ 7 Oct 1982 = 2 weeks.
.,	(See Hay Blom notes)
and the COMMENSATION STREET, and the second	2 \$570 returned to Gaziebo 10 Oct 1982 = 2 months
	Abba Definitely not at Gazebo during June-July
	nesting, Probably not back on 17 Aug. Firstseen
	buck 3 Dec 1982
6 March	Ambush here, but all we catch are the 4 Jurs,
	819-822. 9819 was roosting alone in the 82 nest
	hole, the others together in a dead stus hole.
	Only interesting thing is that I appeared to have banded 9819 Red / Unite - Orange
	banded 7819 Red / White - Orange
Nune	Susa-reports Beggslaid in the low hole, then 4.
	** GROUP UPDATE **
	D 0516 shot 11 April 1983. (see susa-is notes)
	(2) 8717, 8718 (adults), 8836 (1styear) moved here
	AMONDAMENTO From CV Grande 17 May 1983
7 July	Ba-ded 4 healthy nestlings here, J932-J935.
	See capture records.
3 Aug	watching here 0930-1030, I dook. Blusseen with M/R/K-Or will, J933 wat/Moure-white, J934 M/R/K-Or, and
	well, 1933 wht/Moure-white, 1934 M/8/K-0-
Juv dom!	1935 or/m. Ever saw 1933 tuke a couple
	dominant) Also saw 5718 CBlue/M and 81836
	of Sharp dominate intractions from 1934 (1933) dominant) Also saw 3718 cBlue/m and 3'836 Kellon-OBlue/m, 3718 was feeding all 3 of the juvies
	at one time or another
	GAZEBO ABANDONED Fall 83



Melanerpes formicivorus

	Blom 1
10.1	
17 Jan	* * GROUP UPDATE **
· ·	1 J831 disappeared 27 Sept 1982 + Decen 1 month
	Lust seen 31 Aug, 60ne 230ct.
-01	
20 Jan	Granary census from blind. 1345-1545. Complete
	ce-sus, 8492, 8649, 8830, 8832 all seen well,
A grant and processing many and Addition to the testing and	buta pretty slow watch, all in all.
1 Felo	Granary Ce-sus 1000-1200 (cou-tas 11-1300). Very
	slow, (cool breezy (butsumy) Am). Only 3492 an
	a 7 (assume 7649) seen, but both stored an avorneach.
4 Feb	Good granyensus, 0,20-1020. All 4 Sirds Seenwell
DIFE6	Grandry census, 1030-1230: Details below:
	1030 nobodi 1135 8492 NH 87830 WS 9649
	35 8492 EA 40 8492 WH 9649
	40 6492 45 3492 WS
	45 11
	50 nobady 55 3492/2649WS
	35 x649 0 471 0 851 1200 0 492 WH 1 9649 EA
	1100 3492 OS 8492 WH 19649
	10 11
	15 11 15 11 11 11
	20 11 25 3492 EA 9649 5'830
	25 11 1280 7649 8 830
	30 8492 WS 9649
	defense 1050 Nuthatin O (nosody arou-a)
	1055 Nuthatch 7649 2
	1125 Unid Pas, 5'4921
	1143 Yellowupha-b 8492 1
**	dominare, 1130 & 830 flew into granary. 8492 approached
	him then recked \$836 scral times as \$830 chattered

him then perted 8830 scral times, as 8830 chattered

and moved away. Otherwise, routine watch. All four

birds seen well. San 9649 fly is with a acord

once, so they still may be harresting acords.

15 3492. 7649

Hu Melanerpes formicivorus

Blomone Granary Census, 1320-1500, Routine, but like yesterday, 8492 jumped all over 8832 when 8832 flew into the 1-ldyrdom gra-any and landed on a storage. Like 8830 yesterday, 3832 chattered and received several pecks for his trouble. All 4 birds seen well. 23 Feb Granary census, 0810-1010. All 4 birds (3492, 5830 8832, 9649) see- well. Right at the end of the watch, 8832, 9649, and probably 8830 as well brought in acorns from the South and stored them! So there are still a few live Oak acoms on the trees he-c still. Walking by at 1230, the growning sersus of the past 4 days (see susurs notes) has flaredup again 7809 oformerly of CV Grade, appears to still be in te-nous co-t-ol, adaT least has the cooperation of the two 88. But 2 Gazelo 99 (819+820) a- 1800 7 (9786), 27NB, and surprisingly, +695 of Dark Hollow (what is she doing here?) are giving 7809 a go. Sce Susa-is notes for more details. 15 April Beth + I here relieving Susanat 1000. Moderately chaotic but the story at 1030 apprais to be @ 7808 + 9800 From CV Gra-de are in control of the ee-trul Park of the granary. They seem to be friedly with the 33, especially 5'830. 2) Two Gazebo ff (99819+820) are here hagigout in the tree adjulent to the granary. I saw 3492 open wing wake

with them on one occasion, so they could be trouble

```
22 Feb 1983 Blomone grandry census 1320-1520
                         1425 8492
1320 96493492
                            30 8492 MA
  25 5492 WS
                            35 0492 MA
  30 3492
                            408492 WS $64988308832
  35
  40 8492 WS
                            45 8492 WS 9184 8830 EA 9649
  45 8492 8830
                            50 8492 9649
  50 8492 WS
                            558492 9649 3830
  55 07492 WS 9649
                         1500 5492WS 8 830
1400 8492 MA
                            05 8492 WS
  05 8492 MA 8832
10 8492 WS 9649
                            10 到492
  15 nobody
                            20 Nobody
  20 8492
3492 1417 Unid Passerine
31492 1455 Y-rwarbler
8492 1505 Junes
```

granary census 0810-1010 23 Feb 1983 0915 3492 0810 nosod-1 20 9649 15 \mathcal{H} 25 3830 EA 9649 8832 20 11 25 8492 30 8492 WIT 8830 WS 9649 308492 35 8492 WIT 9649 35 all 45i-ds 40 hobody Storase 45 8492 9649 40 all 4 birds 50 34929649 8830 7849 1 45 all 4 51-15 55 8492 9649 50 all 4 birds 830 1 1000 8402 55 hobody 05 3442 58321 0900 5492 05 8-92 WS 10 hobbay 10 3492 9649

Melanerpes Formicivorus

Blomone

(15 April) (3) All 3 1800 99 are also here (99755, 786, 787) but are relegated to a top portion of the grandy and some of the trees to the couth. At least for 2 4NB are here, as well. So far, nobody seems to be making much fragress in taking control, but the CV grande 97 seem like the best bet.

- 29 June ** GROUP UPDATE * *
 - 1) 2649 shot 9 April
 - 2) 9809 moved here from (U Grander 9 April
 - (3) 7808 mored here " " 16 April

Blomone ABANDONED Fall 83

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	Blome one Nest Record
22 May	Philip finds nest in 1982 first nest hole.
	7 eggs (1) 23.6 x 20.0
	(2) 26.7 × 20.5
· · · · · · · · · · · · · · · · · · ·	(3) 26.1 x 20.5
and dead of these courses to the second of t	9 24.5 x 20.0
e de l'Adress annu annual de la company	(5) 25.0 × 20.1
	6 23.5 x 19.9
	(a) 26.2x 20.5
er er verstemmen amad ha see ensemmen var val	Looks like skew is 4-3, Sature have no ideal which
	9 (7808 or 7809) laid which eggs.
23 Jule	Bunded 3 healthy nestlings, now Juss. 920-922:
	Soo casture records

but no 8.

Melanerpes formicivorus

	Blom anna Two
21 Feb	1235, Itake appek here and see light / Drk-light, which
	I presume is 8846. Very few alors are stored here, and I'd be surprised if they last through the suinter
9 May	Swinging past 6830 Ffind FIVB drunning from the granary, but the chased mildly 6-, 8847 M/RM-BIA.
	a nother bind (I presume 3846) was nearby. Nosoan, in any holes here.
	Swinging by 1730, I find a bird looking out of the low hole in the W branch of the granary. Does Blom 2 finally have a nest?
17 Juie	,
20 June	Nosody looking out here at 1400.
20 Ju-e	watchinghare, PM, I see 7847 M/Red-Black

Blom 2 Abandoned full 83



Melanerpes formicivorus

Blon, 3

5 Jan Walked by here, 1230. No activity at all in the area webleten between Gazebo and Blom3, where

lots ofaction occurred in Dec.

22 May

Finally find the nest here, in the upper of the two 1982 nest holes in the Blue Oak. I climb up at 0830 and find 5 eggs ~ 6-7 days along in incubation, meaning that 17 June will be a good day to band here. Interestingly, 4 of the eggs were quite round but the fifth was long therey narrow. Strange.

16 Ju-e

1130: Ba-ded 4 healthy 18-day old (o-so)
hestlings, now Juvs. 910-913. Also i- the nest was
a teed 12-day old, that was stinking up the nest like
cruzy. I removed him. So all 5 eggs hatched

Blom 3 abandoned full 83

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DarkHollow 23 March Watching here on a windy, wet afternoon, 1400-1545, Factually do OK. After a good bit of work, I find

8584 M/BPink, 9695 Maure/Maure, 9696 M/or-unite, 6824 DBINE-Or/DBINE, and 7825 M/unite. Missing was 8823, but he might nell be around. watching here, 1020-1140 for signs on nesting intentions. Nothing much really. When I First walked up, I thought I flushed a bird from lust years nest hole, but I wasn't Sure. No other visits to holes. 8584, 7695, 8824, 7825 all See- well, but \$696 missing. 8823 is restainte Informative watch here, 1240-1430. (1) I Finda 12 April new hole here, and a of caught in the act of working or it. It is in a fairly inconvenient place in the South tree. Rope ladder appears to be the only reasonable way of dealing with the hole. · Donne again, I find that 7696 is missing, though 7695, 0'584, 0824, 7825 all seen. Will need at least one more watch to be sue, but it she's gone, we will not have egg tossing here this year. BArril Ever bette watch todan: 7696 is here, forsure! Scenwell, as were the 4 other birds (7696 carbe told free 4825 by the former's fairt left side mustache). 3584 speta long time working on the new hole, but 1 it doesn't look that deep yet and (2) I may have seen a bit of interest in the 82 hole as well. Must be alert here.

	·	

Additional 1. The proposition of the desired part (4 Addition	Dark Hollow
17 April	Opened the newhole here, 1630 (after flushing a
	birdout) and found it a longuay from completion. Fairly
	shallow, rough bottom.
A 4	After watching here the last 3 days, doesn't look
	like DH is planning to nest anytime soon. In
	the last 4 has I've not seen any body in the
A STATE OF THE STA	newhole. I checked it yesterday, and although
	it was clear that some progress had been made
	Since the 17th, the hole still has a ways togo.
29 April	After a string of bad watches interrible weather,
7	I come over here at ulli 0840, + firally see some
39	interest in the new hole. A & was looking out
	when I arrived, and 3584 entered, too. Will have
	to check the hole soon!
30 Ap:1	Watching here for egg laying, OGS. Pretty soring.
,	Noboly looks at the hole. 0730, I sheet the hole,
	finding it with no eggs but close to completion,
	Afen more days of work it should be ready for eggs.
2 May	watching again, 0610. 0720 Nothing! 3584 looked
	intothe newhole once, and 7625 ate some of the dap (!)
	but that was it. Complete ce-sus, 8584, 9695, 8696,
	8824 9825 allsen.
4 may	Watching here 0550: 0710, Nothingmuch. 3584 was in
	and out a fentimes (once I heard tapping from nithin)
	and \$186 696 looked in once, but I that was about it.
5 May	Looking better here, 0545-0710: 8584 continues
	to make a lot of visits to the hole (He also

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Melanerpes formicivorus

Dark Hollow (5 May) has the wasual Characteristic of garricking from Inside the hole), But 7695 made one quick wood chip visit, ad 7696 lookedi- a couple of times Lots of opening wakers rouch here, too. 6 May 0545-0700: Boresville, man! 3584 made one quick trip to the hole, but the PQ nevereur glarred at it. Still a lot of garricking, chattering, intrusions, + opening waters here. They seem to be having problems. Methinks I will let the slide tomorrow Been letting these guys slide lately (though I watched [Sound] on 8+9 may, continuing to see & 584 in the hole a lot Starting here today 0600, 0700, Still boring 8784 spet a lot of time inside working on the hole, but novicits 15 May Watched here today, 0545 - 0700. Confusing. Yesterday Walter watched + reported The birds were going into a Loke on the high horizontal dead stor in the nest thee Today, I see no interest in that hole, but some token interest in the usual hole, plus the 82 mest hole. Dark Hollow still has acoins, so I'm not sure what the problem is here. May 0545 - 0700, SOS. Some interest in the usual hole (including one brief visit by a f) and no interest in Other holes. 19 May 0545 - 0815: Looking better. A mustached & (suspect 7696)

was lookingout when Farrived, and didn't leave until Oblo (after

goingdown a Few times. Brief visits by 7696 + 8584, too.

Will have to watch here tomorrow

19 May Dark Hollow

0545 mustache 4 1.0.

20 May

0614 9696 e-re-s

0623

1.0

24

5. d.

0650 9696 leaves

checked hole, C730 Ira-tragg

0808 9695, firstpip to hole, Flierout with runt eggcarried to dejurat 82 nost tree. Couldn't soe what happened to it.

Dark Hollow

20 May Finally, action! Didn't bring the tape recorder, but the general plan follows.

> At 0619 7696 entered the hole and except for a few brief look outs, she stayed down u-til 0650. Feherhed the hole about at 0730 and found an adorable runt egg laid no doubt by 7696. By this time, both 7696 + 8584 had entered the hole three times each + had not removed the runt. But at 0808, 9695 finally entered, and though she stayed down for ~ 2 min she left are with \$696's runt! Good! Thelgg was carried to the adjace-t tree but Fcould-'t see what happened to it there.

I did- thave calipers today but this runt had an air cell smack in the middle of the egg.

Another egg towswatch here, + 696 lays (presumasly a normal egg, but I didn't set the egg well ad 7695 carried it out @ aroud 0747. The egg was carried to the adjustent tree (1982 nest tree) where I was unable to see what had happened to it. Details on back.

Repeat of yesterday: 7696 lays normal egg, 7695 carries it out (after staying in nest - 2 min), and 7695 fails to lay, Maybe she will lay tomorrow. Details of the laying + tossing are on buck. Again, Program 7695 carried the egg to the 1982 nest tree whore I was u-able to determine its fate (though Fin sure it would have

```
21may 1983 Da-Attollow egg laying watch
 0545 start
 0603 7696 enters
0604 8584, 8824 enter
                             2696 lays
0600 both For leave
                                0603 - 0639
0620 9696 1:0.
0621
            1.0
0636
0638
0639 7696 leaves
0654 9-696 lyaves e-ters
0658
0701
            1eaves
0701 8584 Enters
0704
             leave,
0715 8584 enters +leaves
0733 9646 eters
 0743
        11
             leaves
0745 9695 enters
0747 7695 leaves carrying egg (not positive, but pretty sure
        egg carried to adjacent tree, but I couldn't follow it after that
 0800 checked hole, empty
  22 May 1983 Dark Hollow
0545 9696 1.0.
0546
0556 9696 Pates
0617 9696 1.0.
0620
          5 d
0620 8584 enters
                      9696 lays 0556-0633
0621 8584 leaves
0627 8584 wteh
0628
0620
0633 8584 leaves
0633 9695 cometo hole
     7696 Haves
     9695 e-to/5
0635 7696 leaves carrying nice normal egg, carried to 1982 nest tree
0635 8584 1-ters Briefly lea-
0641 8695 e-ters
0642
0645 7695 leaves
  checked nest 0700, empty
```

Dark Hollow

23 May Ho Hum, another day, another egg tossing at Dark Hollow: 7696 lays, 7695 tosses. Details on back. The only thing of special interest is that 2695 came out with the egg while 7696 was still down in the hole. Hardly spens like there was enough room for that kind of stuff. + wasn't sure , what happened to todays egg, as I was busy watching the action at the hole.

24 may Egg tossing could be over hore. Both 99 lay, 1 a ru-t (D19.1 x 15.2) almost certainly laid by 9695 (her first egg). This ruit totally lacked an air cell. The normal egg laid (presumasty) by 2696 was

24.5 x 20.4 had a slightly off-center aircell, peat Plus a small calcium chip,

I then watched from 0715 to 0900 during which time \$695 had 4 good chances to throwout his runt and 7696's normal egg but she never threw it out. I gave up the watch at 0900,

25 may Things are overwith here, Only one egg laid to day almost certainly laid by \$695, 25,5 x 19.6, hearily marbled, with no co-spicaous air cell. See back for actails. Beggs so fur then. Both of yesterdays eggs still present

Nestcheck, 1815. Seggs: (4) 25.7 x 20.2 small, asymmetrical air cell (9695.) (5) 25.2 × 20.4 normal slightly asyn. air (4)/ (9696.

Both eggsnee heavily marbled. 27 max 1800, 6 25,7×20.0 versmall asymmetric aircell (9695)

```
23 May 1983 Dark Hollow egglaying
0540 8584, 8695 in hole
0545 both leave
0607 9696 e-ters
0611 8584 eters
0613 8584 leaves
0616 9696 1.0.
0619
0629 8584 $695 1+1-
                                (9696 still in hole)
06209 7695 leaves carrying egy
0639 9696, 8584 leave
0643 9696 enters
0706 9696 1.0.
0730 checked hole, empty
24 May 1983
0545 DEMINION. 7695 1.0.
0559 9695 leaves
0611 9.696 taters
0614 9695, 8584 etc
0622 8584 leaves
```

0624 0625 " leures 0626 9696 1.0. 9696 0611-0645 9630 L 0634 8584 1-18-3 0635 9645 0635 0645 QUAN 8584 leaves 9695, 9696 184Ve checked hole Zeggs. 0715 back watching

7695 0614-0645

0900 9695 made 4 10-1, visits, did not toss.

```
25 May 1983
0545 2695 looking out
0551
  54 9695 18Ques
  54 8584 enters
     8584 1.0.
  58
  59
0604 9695 e-te-s, 8584 leaves
0626 7696 e-ters 8584 e-ters
                                  9695 lays
      2696 leaves
                                    0604-0640
0628 8584 leques
0632 9695 1.0.
0633
            5. d
     2695 18 ave.
0640
0642 2696 e-tes
0647 9696 leaves
```

Dark Hollow Nest check, 0645. Hatching, and my timing is perfect. Eggs (2) + (5), Both belonging to \$696 (her only two eggs) have hatched. Both marired with Blue Sharpie on the right leg. Egg (3) is pipping, and eggs (4) + (6) look like they should hatch. Good deal! 7696's eggs must have a shorter development time. This also underscores why it's important to throw out your own runt eggs, as 9695 has tallen behind Nestinect : 4 nestlings: Eggs (3)+(4) Zu-c have hatched (marked with Blue sharpie) and 6 is Pipping. \$6965 2 young remarked with 13/11e sharpie on right leg. 1100: 5 nestlings, lonthemay out 11 Ju-c Donn-CPink (Right Blue Sharpie 9496) Tellow-Black (" " ? (496) Big disappointment. Here to band the young at 1600, I find the nest completely empty. Probably Failed ~ 15 Jule or so. What's more, Dark Hollow Still has acors. Hard to Figure what happoint here, Predation! Ishouldwatch have tomorrow * * GROUP UPPATE ** O 8823 disappeared 100 28 Jan ± 6 weeks (Lastseen on 3 Dec82 certainly gone by 23 March) 30 June Watching, 0880-0945: Nosign of a new nest, and only 8584, 7695, 7696 seen (repeatedly). Having doubts about the presence of 8824, and emma especially 9826.

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Dark Hollow

3/4 slow nutin 0700 -0900: \$695 + 8584 both seen pretty well, and at least a third bird present as well, (4696?) but that may be all.

Dark Hollow ABANDONED fall 83

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Corral Viejo Canyon Hastings Reservation I come over here, 1100, and try to watch OK Corral in the hopes of finding some banded birds. 1200, No such low. Simultaneously in the granary area I see 5 unbanded ff and I unbanded of! & Two or more of the 94 look like first year birds (darkeye, short bill). This may be all the birds in the group. 7 April Intight of CU#2's incredibly early nest last year, I think it a good idea to walk over here at 1020 and say hellow to the holes. Nosody in last years first nest but in the "holey" Blue Oak above the granary, I flush a woodperter out of a "new hole in a stub on the uphill side of the tree. I wasn't sure which hole, because there were several in the Stub, but it bears further watching. 26 April Atom of Corral Viejo groups, a 1730-1830, produces the tollowing into. 1 Flushed birds out of the 1982 next holes at both CV#1 + CVG-a-de @ Flusheda FNBout of the roost hole where we ambushed at OK Corral (3) Nothing at Blom 3 and (surprisingly) (U#) will have to check here again to see it we have nests here Opened the hole at CV Grande (aftermaking a deeper cut) 28 April and Found 5eggs (including I partially - buried runt) - 4 days incubated meaning 28 May would be agood banding date. Didn't flush

anybody out of the hole at (U*1, but I did at Ot (or-a)

meaning that they must certainly have a nest.



Corral Viejo Canyon 2 May Wentupto open the hole at Ok corral, but @ I didn't flush anybody out when Fwalked up @ + four that the hole takes a Strange dog-leg, so I couldn't Sec the bottom. Also, because of the dog-leg, I had the rope ladder in a poor position to work on the hole Consequently, Fuill wait + be sure there isanist her before I open this hole. 4 May Did the (V ca-yo- tour, 1500: Nosoan, looking out of holes at either CV#1, CV#2, or OK (orral (has that nest, if it ever was a nest, failed?). I birda was in the nesthole at CV Grande, and as I walked up to Blom 3. I saw a f briefly e-to- the upper hole in the 82 nest tree. In short, not a very successful trip over here. After flushing a bird but of #boo a different, easier hole at Ot Corral (same tree) o yesterday, I come back and open the hole today of find Seggs, ~ day 6, meaning blune would be a good day to band I walk by Oklowals nest, 0800, and though I don't fush anybody out I do hear besy noises from within, so it would appear that the eggs have hatched CV2 I watched a sit checked the holes, & still found no evidence of a nest yet. 27 May Barleda disappointing Inestling (1875) at CV Gra-de. See capture record. 4 May Barded 4 healthy, old (~ 26days) nestlings

at OK Corral. See caprels. 1883 - 1886



Corral Viejo Canyon

20 June Walking by (U#2 I see Alle two juveniles that Hedged from the missed First nest, but no sign of a second nest. Nobody i- holes at CV Grame, either.

> Ste Sandy's + Susans notes regarding fall ala-donne-t of CV groups.



Westgate

22 March 83 Successful removal amoust here at 0520, as we net and remove \$599 from the group. By 1000, Susan reports a full fledged power struggle going on.

1145, Moderate chaos. At least 12 intruders here, 119, 18. IDed participants include at least 3 UB & (on the peripery) 7685, 4785, 9789, 9791 (from bute; 9685 and 9785 most conspicuous) 8790 (from Gate; Spen briefly by Pam),
plus 7687 and 7798 cpnx.06m/ cpink from ARFI, cooperating with another FNB (1)

At this monort, the 2 ARF 2 sisters and the UB9 appear to have the upper hand. They have control of the central grandy area, and are makeing with 358 and 3692. The gate 99, especially 7685+ 7785, are also in the gra-ary, but more to the side, and appear to be being chused by 0'692. The remaining & NB appear very much peripheral. Light intermittent rain falling throughout.

5692 of wgate seems to be taking the main role in chasing for around; One-legged 858 is mostly laying low.

1345, 2 hr later things are changing:

(1) Acooperating group of 4 2NB have taken over the Wside of the gra-any tree. They are also beginning to score points with 3692 + 858: 1 hr ago, both
88 would occasio-ally peck and give chase to those

Westgate

(22 March) fg, but that seems to be declining as they exchange wakus with some regularity.

> 1 he 2 ARFtoo 84 (Oppenting with the FNB are losing ground. They still control the high central. Stub, but the 33 are less friedly with them. Even saw 358 tuke a peck at 2798. Also, the 79 do not seen to be chasing arrow, playing a much more defensive game. Not a good sign. The worst sign, honever, is that 7687 is either gone now or keep an extremely low profile. I saw hen fleetingly at ~ 1300, but I've not see- her in an hour now. Is she injured dead, or given up!

3) The Gate 99 are still here sporadically but seen undecided about whether to fight for Whate or defend gate. They are Shuttling back and forth, as spillower fighting crupts now tagain at

(4) Saw a BNB (ady 2nd & intrude-) Righting with 0790 of Gate on the nestern periphery.

23 March 0820, the power struggle is over! 5 unbarded 49 are in complete control of the grandry, and quite Friendly with the males. The 79 are expanding their Control outward from the granary, and the only potential rivale are relegated to "themestern frontein" 0845 I Find a 8NB and a PNB hanging out together in the sylamore down by Naggies. One of the Wgate birds (I caspect 8692) came down and chased them some,



Westgate

23 March driving them down to the Valley Oak in front of the Hallisey driveway. 0850, looking "cut + dried. No intruders around at all. Constant greeting open wing waters coming from the granary. 058, 0692, and . To FNB all seen well.

> 0900 actually 28NB and a 9NB harging around by Maggies and the Wend of corral Field. They are no threat, however, and appear to have given up.

5 April

Ambushed this AM, caught 17NB (now 785\$) and 8'692.

** GROUP UPDATE **

1 7 599 removed 22 March 1983

5 7 NBs moved here 22 March 1983

Opened new hole in low stus, finding 4 eggs See nestrecord

21 Cray

Very u-pleasant finding here. Herenith Philip to band ~ 1630, ne find 1) the Fragile, thin piece I cut had faller out of the hole twas lying on the ground.

(2) The nest was empty, fue-though Philip had seen the adults Feeding yourgearlier this moth. I suspect predation but whether the piece falling out led to predation or the predator knockedy out the piece, we will never know Regardless it is probably best to exclude Wgate from rep. Success calculations

29 Ju-e

** GROUP UPDATE **

1) 7855 + 7856 Burel here 7+12 April respectively 1 7854, 7856, 27NB Move to Gate 830416.

• . , . .

Westgate

1 Aug Good short watch here: 358, 3692 + 9855 all seen well during a short watch.

Westgate ABANDONED fall 83

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	Westgate Nest Record
20 May	1030, opened new hole in low nest stub:
and the second s	Leggs frish (presably day lor2, sie
A	Leggs, fresh (presably day lor2, see Derise's notes for 19 may)
21 June	
	See notes:
e piganggapan ana saman kangan nga ngangan kangan at 1 tang panggapan meni terung	
erhallende Millian States, verholende vandelijk in dat met helene - vandelijk	
and the second s	

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Gate

6 Munh After big storms, the hanging lind here finally fell ~ / March. Today, with Susan + Philipshelp, we manage to salvage a fair number of storage holes + occorns and return them to the tree.

5 April ** GROUP UPDATE **

15 7519 removed 15 March 1983.

16 April Wild things going on here: At 0845 France by + fird a POWER STRUGGLE in progress. Amazingly, 4 new ff are in control of the main storage area and matraing with 8627 alot (+ some with 8626) But the 4 ff are the presumed 4 that moved to Westgate: \$854 M/CPi-r 0856 Tellow-Red/M 2 f NB

77789 + 791 of bute here, butseen to be relegated to the uppermost branches of the grammy. Saw 7789 chased around a bit by a FIVB! U-forturately, the key bird in all this for Susan is 8790, + he seems not to be around.

19 April Watchinghere 1110-1210. Seems to be all over.

The 27NB 9850 9856 have total dominion over the granay They are wataing with & 626, 8627, + (fortunately) & 790, though the last Still seems not in the mainstream. At least 6790 wasser twice in the granary. The ff helpers seen to have been excluded from the granary. I saw \$788 + \$791 perched in the VOS in the flat between Gate + Wgate, and I got the distinct impression that other birds were thee, too.



Gate 17 May Susan anoushed here, catching 5 birds, including one UB 9 (now 9859) that had to be saved out at 0930. When the bird was finally extricated, Susan tound a runt egg at the bottom of the hole. However, the egg could have bee-laid the other = 77 in the aubush, 4854 + 4856 See Lusais notes. 18 May Denise reported 379 (7854, 856, NB) making visits to the Square-nail flat Live Oat hole this Am. 1015 Iclimbup + peepin + Find 20gs (1) 25.4 × 18.7 (2) 2(.2 × 20.0 Don't know who laid or whether they will be tossed or not, but we'll soon know more. Backat 1730, botheggs are gone! Someone (prsomething) has tossed here 19 may Susa + Derise report no laying, no interest in holes. Philip reports laying + tossing See his notes Philipt Derisereport 11 " 11 their notes 25 May Philiproports 3 44 all lay today (a new record:) the q that did yesterday's tossing doing todays laying first. See Philips notes. Checked the hole, 1200. 5 eggs, sooly two 99 laid (4) 27.4 x 20.5

26.0 x 19.8

Susan reports

27 may Holecheck 0930: 6 cggs only I today

Susar reporte checking hore matching, only Inestling missings

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			,	
			A.	
			\$	
	•			
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		•		

29 June ** GROUP UPPATE

1 9854, 9856, 27NB more here from Wgate on 16 April 1983

1 Aug Briefwatch here. I See 8627 LPi-K-DBINE FNB

9859 Row M/Red-Black plus both of the recently-fledged

BIK-WAY/DPI-K

and 928 juvies, 927

Gate ABANDONED Fall 83



Pipeline

** GROUP UPDATE **

(1) 8660 (Plaque), 99703 + 704 founded Pipeline 15 Sept 1982 = 2 weeks.

8660 last seen at Plaque 16 Aug, gone by 50ct. 79703 +704 first scen near Pipeline on 40ct

Watching here, 1445. Pipeline is pretty impressive, now. The residents have drilled ~ 100 storage hales in the Original sycamore to supplement our artificial limbs What's more, the grawy looks like its essentially full A second roosthole has been constructed in the granary;

1630 The birds here are still hard to see. 3660 DBlue-unt(N)/M put in a brief appearance in the granding but that was it

23 March Trying 0910. Unfortunitely, I flushed two birds as I walked up, much as I tried to avoid doing that. I'm sitting, fairly well hidden, under a Live Oak NW of the granary. The granary here is jammed full of acoms

All (or nearly all) Live Oak,

0920, Quick success \$703 Yellow Maure

and \$704 CAIR/BIX putir briet appearances, following a few garricles from Softhe granary. Don't know who was doing that 0935, 8660 DBlue-wht (N)/m also appears, so that

araps up a full ce-sus.

5 April

walk 5-1 at 1045, It lush 3 birds out of the lower of the two grandy holes! Looks like that hole is a likely candidate for nesting

	-

Pipeline NEST RECORD
Checked hole, 1730: 4eggs, ~ 4days incubated
Q 23.9 x 18.6
Q 23.4 X 18.0
3 24,02 × 18.7
(4) 24.1 x 18.7
Bird looking out of hole as Idrives, 1545
Banded 3 old, healthy nestlings here, now Juvs,
887-889

			. *

Pipeline

2 May

Nobody in the holes here at 1400

After tinding a bird looking out of the low granding hole here, of Frome back at 1730, flush two birds out, then find a disappointingly small clutch of four eggs a 4days incusated. Did both \$703 ff 704 lay here, or did only one? Has one of the two disappeared, leaving just one? We need a goodwatch here (see Denise's notes; She reports both \$9 present

Pipeline ABANDONED fall 83

		•	
		,	
•			
	/		
			-

Warp 5 ** GROUP UPDATE XX 17 Jan 1) 7629 disappeared 17 April 1982 = 1 month Last seen oy Alan 6 March, Gone Forsure by 28 May 2 7702 disappeared Tlune Ilweek (ast seen 28 May, grown mising 17 June moved to moved to Pipeline ~ 15 Sept 1982 = 2 weeks 4) 7NB[877] moved to warp 5~ 1 Sept 1982 = 1 month First seen here by Alan 60ct. worth noting here that we don't have good information on whether \$877 arrived before or after \$703 + 9704 moved to Pipeline. Thus, we don't know what movement precipitated the other 23 March Walked up here on a lack at 0950 in the slim hope that I might see some birds. Iactually do Ok. I flush 3 birds whon I walkup, two or which prove to be 8636 LGreen/DGra-LGra and FNB. I tidn't get a look at the 3rd bird, but 0529 seems likely. 1025 I suspect the 3rd bird is of, which further suggests of 528 Strolluphere to say hello to the holes 1430. Nothingsup 2 May 10 May 1245 I Find a Sind looking out of the lower Black Oak hole: Will have to check it soon! 19 May Finally get uphere with Philip to open the hole, I find two pin-feathered, eye-opered nestlings, ~ Ibdaysoold.

WARP 5 ABANDONED Fall 83

Will have to band them ~ 25 May

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t						

	Warp 5 NEST RECORD
	Opened hole in Black Oak (old 81 nesthole), 1130:
and the second s	2 nestlings, ~ 16 days old
24 may	
and the second of the second o	
Make the form of the statement of the st	
	· · · · · · · · · · · · · · · · · · ·
erman i et summeren en plan en ermanen en summer en busteraphisionen	

	• ·	•	
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Road 1

17 Jan ** GROUP UPPATE **

1 3577 + J806 found DOR 25 Aug 1982.

21 March Watching, 1020: 1110, Complete cersus! 3486 3294, 9269 9383, 9578, 8579, 8580, 8672, 9804 all seen well. Only other thing of note is that the 81-82 nest limb (Black Oak) broke below the hert hole, at the lower hole that was never used.

Fortunately, the nest looks Ot.

As it is definitely becoming spring (warm, mostly sunny AM), I start a watch from PO Hill at 0930, looking for signs of mate guarding or interest in holes. I hotice that a top thunk of the 10 granary hus broken off, right at the spot of the upper of the two roost holes there.

1040 Doesn't look like much is happening. Didn't seen like 8486 was showing much interest in 7269. The birds were harging out a lot around the Black Oak nest hole leating catkins, mostly) but nobody looked at the hole. Still its possible that they could be intersted in the low hole in The sycamore, since I couldn't see it.

1130, After seeing Rd I birds hanging around in a sycamore adjacent to the creek (Arnold side) momentum from the bridge, I find what appears to be a fresh hole start Not too high La live part of the tree with a nice live branch below for stading on. Will have to keepa- eye on it. Unfotamately, the hole faces South, not visible from POHill

		•		
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				·

Road 1

4April Spring granay census + watch forsigns of nesting, 0745-0945. \$269, \$383, 8486, 8294, 8579, 8580, 8672 allseen. 7578 not seen, and 7804 seen fleetingly, but not convincingly. The important news is that the birds are indeed excavating a new hole in the new symmere along the creck. Also, Washin it looks like a bit of mate guarding is getting underway here. 5486 seems to be following 9269 fairly closely, although it looks like guarding is not in tull swing. Also, Ithi- K 8486 Sport a fairly long bout in the hole by himself, suggesting that quarding is not completely sure, yet.

> Back in the atternoon, I climb up (not too bad with rope ladder) and saw open the new hole (a little thick, but not too bad, to find that the hole has a ways to go yet. Not very deep, very narrow inside, and a pointed bottom. Still should be some time, if they use this hole. (Possible my opening will scare them

Aquist look 1015, I find a & (9269?) looking out of the new hole, so I appear not to have started them off.

6April Granary census, 1415-1615. Lots of action around the new hole, but not that much action at the gravery O'tsu's guarding of \$269 is still quite weak, it indeed ho's guarding at all.

1 April Checked the new hole 1440, lots of progress has been made! should be ready for eggs within a week.

4April 1983 Road 1 orang census 0745-0945 0850 8486 3294 9269 10 0745 nosody 0750 F383 50 55 367210 | \$383 2° 0900 85798946926910 17283 WS 2 0800 05 9383 WH 2° 10 9269 10 1 3486 2° 15 9269 8486 \$383 10 05 9269us | 8486 8672 8580 P 10 \$269 & 486 & 294 & 672 10 |
15 \$383 & 579 & 672 10 |
20 & 486 \$269 \$804 10 | & 580 20
25 & 804 10 | & 580 20
30 & 579 10 | 25 8579 829410/ 838320 30 3579 WH 20 | 3294 10 35 8579 9269 WH 201 8294 10 35 nobody 40 \$383 0294 10 40 \$269 8579 WH 201 45 9269 93838486WS 20 029410 45 926920 0579 10 Stel Jan 9383+ 8579 0817 9269. 8 486 Aw? 2 0450 3294 0855 6 Squirrel 2 6910

6 April 1983 1530 926920 35 3579 8580 WH 20 40 8579 MA 8580 20 1415 hobody 45 \$269 8580 20 25 8294 EA 20 50 55 3580 20 30 9269EA 84862 35 nobody 1600 βt 05 hosbdy 40 45 B580 WS 20 10 10 50 8580 20 15 7269 10 55 Dosod 1500 Share grand 1050dy defese 05 3589 8486 20 AW. 8 294 2 1507 15 robody 8 486 15 10 Aw? 20 - [1 11

Road 1 10 April Watched here, 0645-0730, saw no interest at all in the hole, though checking it at 0745, found it deep + wide with a good carpet of chips. 1100, routine grany cersus after seeinga bird looking out of the new hole. Complete ce-sus: 8486 244 9269 \$383 7578 8579, 8580, 3672 7804 all sec- well. Lots of traffic to + from the new hole, and discusse 3486 Seems tobe following \$269 with some consistency It should be soon! 11 April Watched the hole have 0630-0745, no action. 12 April Watched the hole 0620-0800. 7269 made one long tripat 0700-0725, at the end of which She left the hole carrying a huge mouthful of sandust. 9383, Ladea shater tripat 0745-0750 ad 0800-6810. Ichecked the hole at 0820 and found it substantially deeper Cdifficult even to-each the botton now) but empty. Hopefully, soon! Watched 0615 - 0755. Two brief "woodchip visits by 9269 great 0640 preat 0750, and that was it. I checked the hole at 0800, founit still empty. 0615 -0755, one 5 min visit by 7269 (Followed by 8486) and that was it. Checked the hole at 0815, Still empty, but looking ready: 15-16 April Watches 0615-0755 Some wood chip removals by 9383, Sutthatiall 18 April 0615 - 0755. On 7383 was in when I arrived. Anice long (0723-0733) visit by 9269 and 9383 (0734. 0753), but checking the nest at 0810, still no eggs

60110NS 9269 11/

defe-se

1132 300 AW? 02 1158 8579 AW? 2

Road 1

Successful egg tossing watch here as at and 0706 7269 flew out of the hole carrying a very small round runt egg, almost certainly laid by 9383, 0649 Although there was some uncertainty it egg ownership, I feel Admy completely co-fident that 9383 laid it because:

1) 7383 was down in the nest hole 13 min, 0636-0649, aut good egg laying time.

1) The egg was very round (marble sized + shaped), as are all of 7383's mast eggs. I'm also fairly certain that it was arunt

(3) 7269 was down in the hole only 4 minutes before flying out with the egg, and at the end of the 4 minutes she first looked out with wood chips, suggesting that she was not thinking about laying. 4 7383 had an obvious abdominal bulge when she entired the nest at 0636. No such bulge

or +269 whe- she we-ti- at 0701.

It would have been nire to have been able to clieck the hole + measure the egg after 7383's visit but I was a fraid of scaring \$269 into laying elsewhere, as we did in 1981. However, I'm quite co-fortable in saying that \$383 laid a runt, tossed by 7269

20 April

Another successful egg tossing watch (with a few complications). Basically 9383 laid ~ 0620-0645 (see walter notes) and \$269 Finally carried it out at 1050 (see Susan's

```
19 April 1983 Road 1 egg tossing watch
0610 start, hole empty
      9363 enters leaves immediately with wood thips
0636
      $383 enters goes down, with bulge in abdomen(!)
0636
      7383 1.0.
0649
      "b,d.
0652
      9383 leaves
0653
0656 9269 looks in, flies
0657 3416 "
0657 9383 enters
            1.0, witha few wood chipfragments
0658
      5-d.
0658
0659 9383 1.o., leaves
0701 7269 entirs
      7269 looks out, a few wood chips on bill
0705
      7269
             backdown
0706
             leaves carrying very small round egg!
      4269
0706
              (almost certainly aru-+ laid 4-, 9383)
            enters briefly, carries out big load of thips
0712
            etes leaves with big load of thips
0714
      9269 enters
0730
      7269 looks out, backdown
0734
      9269 looks out
0735
              back down
0736
     8486 retrs
0737
0738 8486 extitares
0739 $269 /cares
```

Hole check Nestenpty

Road

(20 April) notes). The complications are that we moved the blind much closer to the hole and this may have bothered 9269. She made only one brief appearance outside the hole prior to 10 am, and did not enter. What's more, at 1000 I discovered that she was entering the 1982 first-nest hole in the sycamore 2 gravary. Felinbed up and checked that hole at 1010, found it empty, left the piece off the hole (to e-courage 9269 back to the other hole), moved the blind back to its original position, and set Susan up watching the hole. \$269 returned and removed \$383's egg within 20 minutes.

Another day, another egg toss. 7383 laidonce again here between 0527 and 0702, and 7269 carried it out at 0731. But, evothough 7269 returned to thenest at 0733 and stayed for ~ 1/2 hour, she still did not lay herself. Maybe tomorrow? See watch details on back

Strage watch today. Basirally, Nobody rame to the hole until 0812, when 7383 went in Shelaid a 24.9 x 21.0 egg at that time Monager. (between 0812 and 0830). Philip relieved me at 0940, and at 0953, 7269 threw the egg out. Fate of egg u-known. What's going on? \$383's late laying (~ 2 hours later than yesterday) suggests to me that she may not lay tomorrow. I also wondered

```
Road 1 una Mategua-ding
0635 7269 8486 8580 20
                                    0486 Follows $269 HT 1
  40 9269 8486 8580 8672 20
                                         FTF 2383
  45 9269 8486 20
                                         8580 MAF 9269+9383 1
  50 8486 8383 8269 8804 1
  55 8416 9249 8580 10 1 8804 20 8383 20 8580 FTF 9269 1
0700 8579 8580 8486 9269 10
  05
  15 8486 9269 10
  20 11 11 9383 8580 #0599 2°
   21 April Road 1 egg laying
0610 start, $269 down in note
0613 , $269 1.0.
 0613
0615 9269 leaves
0627 7383 enters ] 7383/ays
       7269 eters leaves immediately (~10scc) with wood thip
0706
07110 7? enters, leaves with sig load
            of wood chips
       9269 enters leaves ~ 10sco with egg!
0731
        (egg carried toward granary area, but fate unknown)
0733 7269 enters
0735 9383 caters
0742 0486 e-+1-5
0746 8486 leaves
0755 9269 looks out, backdown
0805 9383 leaks out
0806 9383 leques, $269 leaves
      7383 Man enters leaves with wood chips
0823
0824 8579 entirs
      7383 exters, 8579 leaves
0829
```

0930 checknest EMPTY! f383 laid today, tossed sy f269.

7383 looks out

0857 7383 1caves

0847

Road (22 April) if 7269 might not be laying in a different hole. But Frame back + watched here from 1445 -1545 this afternoon, and saw \$269 spend show no intrest in -any other holes (the 81-82 holy appears to be a starling nest and I checked the 82 first nest hole at 0915, finding it impty). Furthermore, 7269 paid a nice long visit to the hole at 1500, so it is clearly the hole she will eva-tually lay in. What will happen tomorrow. 23 April \$269 laid a ru-t egg today, and threw it out herself later in the day (see Derise's notes, too). Details of the egg watch are with Walter + De-ise 24 April 7269 laid a normal egg today, not thrown outby anybody. Details of the watch are on the back. De-ise + I gave both 99 pluly of opportunities to toss it before calling it quits. Walter reports both 90 laid at Road I today, taking total clutch to 3. See nest record 26 April Checked hole 1530: 5eggs, 2 new ones marked + measured. See nest record. 27 April Chocked hole, 1630: Zeggs. See nest record 28 April Checked hole, 1200 8 eggs " 1 May Watching about grandry, 1330, hoping to confirm that \$578 is indeed still here! 1355. Success, 700 578, Yellow/untilla not to have laid eggs (at least not 8 of the 13 laid!) 2509 9 383 18486

24 April Road 1 egg laying watch

0620 startwatch

0641 \$269 tents

0649 \$383 enters

0700 \$7383 enters leaves with woodship 25,5 x 20.2

0705 \$269 leaves \$73830-tens

0710 \$7383 enters

07123 \$7383 enters

0745 checked hole after flushing \$7383

(Denise + I watched both \$\$9\$ enterthe hole several times, no

(Dinise + I watched both &f e-tr-the hole several times, no egg tossing).

		Road 1 NEST RECORD						
-	19 April							
	,	7269. Eggnot measured, fate of egg not known.						
	20 April	7383 lays no-mal egg () removed						
M	,	by 9269 at 1048						
21 April 9383 lays normal appearing egg (not measured), re								
-		5-, 7769 at 0731						
de r	22 April	9383 lays late (0812-0830) egg (24.9 x 21.0)						
		carried away by 7269 at 0953.						
	23 April	carried away 6-, 7269 at 0953. 9269 lays runt egg ()						
		thrown out by \$269 (see Walter's + Derise's notes)						
	24 April							
	Mari	out by anybody.						
		Walter reports 2 more eggs (total clutch non = 3)						
	malantera priori di stato diaptera di Nelso i sadababer i serse disersi sersi della	$6) 248 \times 203 (92(a2)$						
		* slight pip damage noted 1 May (2383)						
	26 April	1						
The American Manager		(4) 25.3 x 20.1 (7219?)						
		*disappeared before (5) 24.3 x 20.3 (7383?)						
	27 April	Nestcheck, 1630: 7 eggs						
	1	(\$269?)						
		\bigcirc 24.7 x 20.7 (7383?)						
	28April	1200, 8 eggs (8) 24.8 x 19.9 (9269?) Failed to						
	·	(asiste (had been buried in woodchips, Fextracted it).						
_	1 May	Nestcheck, 1400 7eggs: egg 5 has disappeared,						
		making skew 5-2. Egg (3) slightly damage (1 mm dianeter						
		pip, but Probably OK.						

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	Road 1 Nest Record (continued)
8 May	Nest check, 1830. Hatching
	· 3 Nestlings (presumably from eggs 0, 2+4)
	Egg (3) Danaged at last check missing + presunesly failed
	to hatch. Egg @ pipping, Egg (starting to pip,
	egg & damaged, obviously will not hatch, removed.
10 may	Nest check, 1030. 3 nestlings, 2 from 1,0 or 9,
	I from (6) (the first two marked on RL with Blue
1 Care Common A Annual Common	Sharpie. Egg () also present infortile.
18 May	& flooting out ofhole at 1130.
1Ju-e	1630 Barded Mestling, Juv. 876.
	See capture record.

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Roadl Imay) The badnews is that Echecked the hole at 1415 and found only 7 eggs! Egg # 5 has disappeared, for reasons unknown. Danaged? House Wron? Snake? Who knows. Egg 5) was apparently one of 7383's so the current skew is 5-2. What's more, egg (3), also of \$383 has a slight chirk in it meaning it may not hatch. Could be a strong Sten in young fledged here Checked nest, 1830: Hatching, see nest record. Checked nest, 1030: Brestlings, plus egg (2) that fuiled to hatch. Found hatching fragments of eggs () or 1 leading me to suspect Rimi stem is 3-0 in favor of 9269. One of the 3 nestlings marked with blue sharpico. 8 May wasmissing 1630, Baraca @ a disappointing Inestling Granary crosus, 1415-1615, 0-back. Routine. Birds

June Granary cersus 1415-1615, o-back. Routine. Birds

doing abit of sapsacking from the Live Oak bening the

1°gravary. 9269 9383, 5486, 9578, 5579, 5579, 5580,

8672 all see- well. Only 8294 + 9804 missing.

6June Granary cosus, 0810-1010; Same birds as yesterday,

oles 9804 sees too meaning only 8294 is missing.

plus 7804 seen, too meaning only 8294 is missing. Best thing was that a ~ 3 foot gopher snake was in the middle stus of the primary grammy, being nobbed fairly vigorously by several birds, especially 8486 until the snake took refuge in a hole. The breeding 98 ad 8160/2105 also method with some enthusiasa. Though 9578 - 94804 were around, they didn't do much other than approach dien were around, they didn't do much other than approach diens.

1983

M. formicivorus

	Road 1
15Ju-e	Routine granary census, 1055-1255, on buck or page 6.
	1876, fledged + looking healthy, was the highlight
	of the natch. Again, 3294 is missing: I'm beginning
	tonoiry about him.
8 Jul-1	Very busy gra-ary consus here, 1125-1325: Birds doing
	a lot of supsucting. Very good consus. I'm just about
	100% sure that 8 294 is gone for good. 8486, \$269
	7383, 7578 8579, 8580, 8672, 7804, J876 all seen
and the state of t	Several times each. Still some stored a rorns.
10 July	
	for 8294 he must be gone.
12 July	Slow, hot granary cersus, Only \$269, 9383, 8488
	3579, 3'S80, 8672, 1876 sein
18 July	Gra-a-yce-sus, 1455 - 1655
III, BERTELBERT III. WARTEN BERTELBERT IN STANKE FRANKE	1455 4804 1° 1640 4578 @1876 20
	1500 9383 10 45 7578 3 580 1876 20
	10 11 55 9383 EA U876 20
The transference of the party o	15 11 20 3672 WSi 1 1876 WS 20
	25 85 80 8672 9804 10
	30 0672 WS 10
A first committee and the committee of t	358672 EA 3579 1° 1 \$ 269 8 580 2 0
the second secon	45 8579 EA 7804 10
	50 3579 10 55 nobod v
	1500 nos. 4
Openingstrand with principle had been been been been been been been and the second second second second second	or nobody Onceagain, complete consus,
	15 hoboa.
The state of the s	20 100049
	25 8486 J876 2° W5 30 8 4578 J876 20
terrenginghamasananan - ngjangantyananan marra nakita	358540 " " "
	nodetege

8579 pecks 2804

```
8 July 1983 Road 1 Summer Grany co-sus
                                                       12302578 23835579 10184868580 20
                                                       35 7383 J = $578 8579 8580 10
46 $57810 ] $260 20
1125 8486 10 1 9269 20
  30 $269 20
  35 8579 8580 8486 20
 40 8579 8580 J 10
45 8580 8579 10 1 8486 20
50 8586 8579 10 1 8486 20
                                                       50 9518 # 5579 1°
                                                       55 9578 97449 8 579 10/ $3838486 20
55 $578 J _ WS $ 8579 $ 804 20
1200 8579 $ 804 $ 8672 3 $578 MA 1° | 8580 WS 2°
058579 J _ $383 WS, 8486 $578 $80486728580 10
                                                      1300 $578 $11 $5795
                                                        10 25189804926984863
                                                        15 75789269 8579 8672 10
20 938385579 J ___ 2; 2804 10
   10 0672 9269 9804 EA, 1 _ WS 10
15 9804 8580 EA | 92691 _ 8579 10
   2085798486 9269 9804 1_
   258486 10 / 9269 $ 8579 20
             1313 9269, 9578, 8579 Scrus Jay 2
  10 July 1983 0745-0945
                                                  50 9269 1876 WS | 8579 85878 2804 10 Hobbary
0745 nobody
                                                 55 9269 1876 9578 9804 65 15579 3 180 10 548620
0900 $269 1876 9578 $804 3579 10 1 nobody 20
05 9269 1876 9804 8579 10 1 3672 9383 20
   50 8579 20
   55 738310
0800 9383226920
                                                   10 7 269 9804 1876 10 1 7 0466 20 15 7269 0876 10 1 9578 0579 0672 1 3580 20
   05 9269 1° 9383 2°
   15 9269 10 1 9383 8579 8604 2°
20 9269 9604 10 1 9383 8579 8486 1876 2°
                                                   20187610/ 8383 85798580 20
                                                    25 7269 7804 7383 1876 101 8579 8 580 20
                                                    30 1876 8 20672 10/ 3580 2
   25 $26910 | 8486 8 579 20
                                                    35 1876 7383 7804 8579 10 | 8580 8486 20
40 1876 7383 7804 10 | 8880 8579 20
    30 9269 10 / 8579 8580 20
    35 857091876 10 / 9269 9383 848620
    40 5486 1876 8500 10 | 93832° | $804 10
                                                    45 8579 20
    45 9804 9679 9269 WS J876 10 / nosdy 20
defenge
           0755
                    9383 Plain Tit 2
                   7269
                            11 11 1
           0803
                    9269
           6831
                            6. Squirrel 1
            9269 peiks 9804 ha-A
 12 July 1983
                       0710-0910
                                        08 15 7269 7382,0 | 8486 8580 20
0716 9383 10
                                             20 9269 9383,0 1 8486 20
   15 hobody
                                             30 926910 1 8486 20
   20 nosody
   25 8579 8580 $269 2°
                                             35 926110 1 8486 9383 1876 2°
   30 9269 20
                                             40 9383 20
   35 nobody
                                             45 $383 10 18486 1876 20
   40 $383 20
                                             50 9383 10 18486 1876 20
    457269 20
                                              55 House Led 738310 | 8486 9264 1876 2°
     50 9269 20
                                         0900938310 | 7269 8486 8580 1876 2
    55 7269 20
                                             05 9269 9383 1876 8
10 8269 8383 8580 20
 0000 9383WS &580 20
05 92698486 8580 20
    10 9383,0 | 8580 20
          no Lefe-se
```

1125 - 1335

distas present

Road 1

21 July Routine gramy (e-sus, on back. All 9 birds seen

well

22 July Final routine gra-ary CR-SUS.

29 July Pathy of Mammalogy Class Finds J876 DOR in between Road 1 + Finch About 30 feet closer to Finch was one of the u-baded "Finch" Juveniles, also dead but not as fresh,

3294 disappeara-18

Road | not aba-do-ed. By fall 83, only 8486 ad 9269 remained.

```
1505 9269 9578 10
1400 8486 10 | 9269 20
                                        10 8519 10 18486WS 20
  05 9383 MA 2° 13 10
10 8580 8672 20 | 9578 10
                                        15 7383 2
                                        52 6383 10
50 6383 10
  15 8383 10/
                                        30 $383 10 | Ss79 ns $ 9269 2°
  20 9383 10
  30 $383 1°
                                        35 1876 10 | 8580 20
                                        40 1876 WS 10
  35 2269 10
                                        45 nobody
   40 $269 10
                                                                                 no defense
45 1876 EA $804 1°
50 9269 1° 1876 2°
55 9269 3580 1°
1500 9269 ; 10
                                        50 3050d 7
55 3586 $383 2°
                                      1600 8383 018672 20
```

22 July 1983 1105-1305

11057261 19 1876 20
10 \$ 269 19876 20
15 hobody
20 \$269 ws 1876 10 | 8579 20
25 \$269 1876 10 |
30 \$269 \$269 1876 10
45 1876 ws \$259 10
45 1876 ws \$259 10 | 3486 20
55 \$269 20
1200 \$269 10
05 \$579 \$ws 1876 10

121018761° | \$579 2° 1518761° | \$518 \$383 2° 20 8 579 2° | 25 8 \$269 8 580 ° 30 \$269 1° | 8579 2° 35 8579 8672 WS 10 | \$383 2° 45 8580 8579 8672 \$578 1° | \$1876 2° 50 \$383 \$578 8579 1° 55 \$383 \$578 8579 1° 1300 \$2383 1° 05 \$383 1°

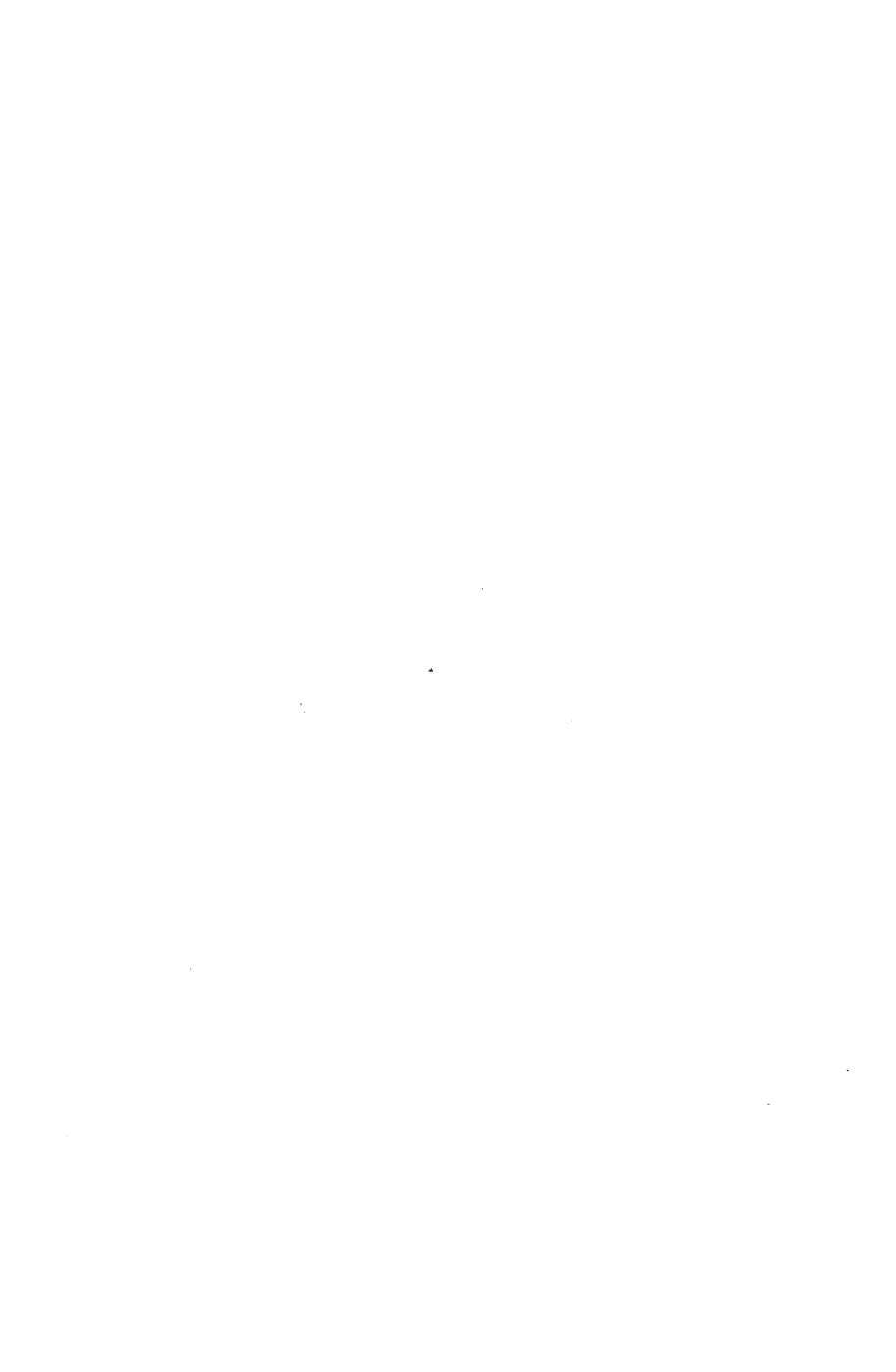
- don 9269 pecks 8580!

10 Jan Watched here 1130 - 1300: 9614 and 1817 are définitely gone. Free 863, 866, 9541, 8542, 7543, 8613 8616, and 8816, repeatedly and 8501 briefly. Conspicyously absent are 8282 and 8540, usually two of the more conspicuous birds, Interestingty two cf the sycamore roostholes overhanging the East bridge parking lot have fallen recently, but I found no evidence of wood peckers in the remains. First birds were actively storing acoms in the Valley Oak. 066 and 7543 seemed especially busy. 17 Jan ** GROUP UPDATE ** 1 2 min disappeared 16 July = Queeks. Last seen 6 July missing 26 July 2 1817 disappeared 1 Sept 1982 + 1 month Last seen 26 July, Gone by 50ct. 21 Marching, 1120. 1300, Slow, but not too bad: 363, 366, 9541, 8542, 9543, 8613, 9816 all seen well trepeatedly. 8282 + 3540 still missing, as were 8501 ad 8616. 31 march walter told me of a new hole under construction here in the usual prest limb. At 1120, I find a & with sawdust on his bill looking out of a very low hole in the sycamore. Worth keeping an eye on. This

hole is in the live part of the limb, so it could

be accessible by Free climbing though the short

extension ladder would probably be best.



	Finely
5 April	Watching here 0945, looking for any signs of mate
	guarding. Doesn't look like it. 0955, 866 working
	very concernedly in the Valley Oak, moving acoms. For audile,
	4541 nearby, but 366 flew away from her, returned, then
	failed to follow her. Certainly he should be guarding,
	if a-yone is. 1025, also san & 66 move away from \$543.
and the matter amount of the second	Only other birds seen mere 3613, 3547 (who followed
	7543 once) and 8816
14 April	Another watch, 1200-1300: Not us good as on 5 April,
	but still looks like nothing's happening. Obs flen in
	by himself once or twice, 7541 + 7543 noved around
N. Baldener's principles () II - Service Arrivages () N - Service () Users	a few times, not obviously followed by anybody.
	Maybe Firch won't nest this year.
28Ap:1	Another dull watch: 7541 + 7543 both co-spicuous,
	but no evidence of any 33 quarding one or the other.
d the former they was a second of the second	863, 866 3542, 8616 (notseen since January), 7816
	all sie-, tooi
1 May	Aquick look here, 9541 + 8543 hanging out in the
	Sycamore granary, but no body scens to be paying
Additional and the street are all the street and th	them much mind.
2Ju-e	Watching 1445. Cooks dull, Only introcsting thing is
	that I clearly san \$543 take several sharp pecks at
\rightarrow	7541, so at least I now know that dom. relationship
	7541, so at least I now know that dom. relationship. Arnold 1) F816 (seen a week ago at Abb), 8616, 8542, 366 also
Total design and the second	Sein. Nosody in any hole, no evidence of food carrying, etc.
	1530, 8613also scen, asnell as 863 so a complete cereus.

Firch

2 Jun don

9 543 pects hard at \$541

Finch

Watchinghere, 1230-1300: I'm convinced Finch is not interested in nesting. No evidence of guarding of 7541, or Food carrying. 566, 7541, 8613, 7816 the enty birds see-

29 June * * GROUP UPDATE **

7543, 8613, 8616 all seen well,

O 8501 disapprared 15 Feb 1983 = 1 month. Last see- 10 Jan gone For sure 21 March

@ \$282 + 8540 moved + founded Mac Flat 24 Dec 1982 = 2 weeks Last seen by Ala- ut Finch 9 Dec 82. Definitely gore from Finishy 10 Jan

9 July

1500 Strange happenings here. On the way up to Road! um, distracted by calling juveniles, Efind that, like Plague Finch seems to be in the process of adopting juveniteg.

One bunded juvenile CPINK/REAL-White is the One buded juvenile grandchild of Firch from MacFlat, so that is similar to the stay at Plaque. Itomever there are at least two (perhaps 30- more) unbarded juveniles as well. At first I was afraid that I had missed a nest, and the JuvuB's wer Finch offspring. However, they were being chased + pecked tuirly vigorously by Finn adults (similar to the way the Plaque adults Myrosor treat the Pipeline juverile) and never saw any adults feed the juveriles I also got the impression that the MacFlat baby was being treated more equitably than the unbundeds, further suggesting. that the unbaded were not Firch offspring. Ampay, this Situation bears further vatching 863, 866, \$541 8542,

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Finch

Heading up to Roud! again, I see at least two juveriles (I certainly unbanded) and hear at least one more. The two juvies were bogging from a d'in the Valley Oak gra-a-y at 1450.

16 July

walter found the dead, long gone (~ 1 year) remains of \$614 along the creek here today, So \$614 certainly died, did not move.

29 July

Patty of Manmalogy Class finds one of the UB Juvies DOR just below the bridge.

Probably has been dead ~ 4-5 days or so.

Firch ABANDONED Full 83



MacFlat (NEW GROUP!)

5 April Sometimes I really have to wo-der it we've been asleep all winter. At 1100 F discover a new group that's been under our very nose all winter. On the nice flat between Firch and Road 3, I flush I Sinds and find a lot of acoing stored in some Of the dead sycamores (and a few in a spirally VO Rd 3 birds used to flycatch + supsuct from),

1119, upo- Poltill, I seed & which I think is Unbaded + probably belongs were. May take ablind to get a good watch in however.

Walk by at 1400 I O Flush abind from a dead or rearly dead sycamore right along the road (PO Hill side) where there is a new on-hole under construction @ Get a look at a barded of, I read as M/Rea (:) Will need to do better than this, however.

10 April Walkingup here 0930 I see a banded & M/LPink (?) plus 2 others birds (1): So at least 3 birds here. The 8 could be 8540 from Finish, but we'll have to see. the two 38 here approviouse 8540 M/LPink + 8 282 Ton-Red/Tan-Red Of Firch! 5282 is the real surprise, berause he's a supposed breeder at Firch. And the & is not surprisingly, unbanded. No evidence of any mute quarding going on, so it may be some time yet before they breed. Strolling by 1500, I flush a bird out of the hole tree along

the road, but nothing serious yet, I guess.

Road

Finch

Finch

New
Good
Area

Sycamore mest tere

Road 3

Mac Flat MacFlat has nested! After flushing a bird out of a road-18 May facing hole in the roadside sycamore (see map back of P. () I climbur, open the hole and find 4eggs, ~ 6days along. This would put hatching at ~ 24 May, builing ~ 14 June 14 June Barded 4 nestlings have, 1800; July 902-905. The 902 + 903 seemed pretty healthy, Juv 9004 was OK * 1905 was quite runty * underdeveloped. See caprecs, 29 June ** GROUP UPDATE ** 1 PNB, 8282, 8540 founded MacFlat (NEW GROUP) ~ 24 Dec 1982 ± 2 weeks (See Firch notes) 4Aug Here in the late afternoon, I find a rouple of birds Sapsucking from a Live Oak overhanding the road. They

prove to be 5540 Dorn/LPink

and a Juven; le unoce

bands I read as M/DBINE-white. Unfortunately, it shouldn't be any of the MacFlat basies, unless Iscremed up in boding 1904 MIRCA-white, screwed up recording it on the field list, screwed up reading the bands, or something. MacFlat ABANDONED full 83

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4 (
May	MucFlat NEST RECORD 1600, open hole in sycamore along road: 4 eggs, ~ 6 days incubated Buded Unestlings: See notes & caprecs For Jurs. 902 - 905
18 MARIA	1600, open hole in sycamore along road:
14/4-0	Buded thesti-as: See notes + caprecs for
	Juvs. 902-905
Address Section Sectio	
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	Road 3
17 Jan	6 ROUP UPPATE **
	O 8656 disappeared 9 Aug 1982 ± I week
	Last seen 30 July 1982. Missing 18 Aug.
	2) J793 disappeared 12 Sept 1982 + 3 weeks
	Last seen 18 Aug gone 5 Oct
5 March	time for a watch hiere 0930 (Long overdue!)
	Gray, misty morning. 1130, Only 8654 CPAR/M
	seen, and truts it. Will have to try again later
7 Maril	Later, watching 1000. 1200, looking bad. Only
	9265, 8'654 8792 seen well & repentedly. At one
	point I thought a second & was here, but I didn't
gay period de sancial security commence at the sancial security commence of the sancial security commence at the sancial security co	See any bands. Anyway, this watch doesn't
harananga majalaja, aga akan kan kan akan aka akan ka	bode well for 868. He may well be gone, and as
	Yet unreplaced because of the preserry of 3654 and
	3792. However, at least one more watch will be
	needed to confirm 868's disappearant
2/Marh	trying again, 0905. 0925, 8654 gives hot pa-suit
	toa? intruder. Could it have been a 3? 368 does
	indeed appear to begone. Will 3654 mate with
	7265? 6935. Successful watch! 7265,
	3654, 9710 8792, 9794 all seen very well.
	368 is certainly gone, but 28 helpers (one zyrold)
	may prevent immigration.
3/Mark	Taking another look here on a beautiful AM 1100:
	1120, Looks like status quo: \$265, 8654, 8710, 8712
	all seen well. Obviously no 3 replacement yet. Will

Road 3 Nest this year.



	Road 3
	** GROUP UPDATE **
	1) 868 disappeared 3 Jan 1983 - Imonth
	Watching here 1220, for signs of nesting, mategua-ding
	immigrat 80 etc. 1300, No sign of ruteguarding. Sun
4	4265 fly off once + 8 654 failed to tollow, and 8792 was
0	seldon aroud. However, 7265 Sp. + Sevial minutes exacuting
r new	a hole on the right had fork just above (~ 1500t) the
new hore	crotch. It they nest, I would guess that this would
	be the place. 9265, 8654, 9794, 8792 all seen
	woll. Only \$710 (see intruding at Plague a few weeks
and the second control of the second control	ago) missing.
4 May	Susan reported a lot of interest in the newhole. I clins
	up at 1715 and find the hole deept good looking, but
	without eggs
8 May	Checked the hole here 1845, and sunofagur,
	4 inbrid eggs, mening 5 may was first egg date
	Susan reported no guarding of \$265 by either of
	her extant Bons, 8654 or 8 1 792.
10 May	Opered the hole, still 4 eggs, so clutch was complete as
	of 8 May

Road 3 ABANDONED Full 83

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Road 3 NEST RECORD

18 May Bird lookingout at 1200

22 May 1430 checkedhole 2 Nestlings, 2 unhatched eggs Nestlings ~ 4 days old, healthy, no evident in breeding depression

11 June Bould 2 nostlings, neither particularly healthy,
J. 897+898. Rd 3 is out of acoms

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School Hill

30 April After Walter reports a & looking out of a newhole just below the 82 nest hole, I come up here, open the hole, and find 5 eggs, ~ day 6 in incubation. Another fragile hole, like lest years so we would do well to ope-it as few times as possible.

5 June Bad snake experience there, 1630. The snake got out of the collar and took refuge in the hole above the 82 nest hole. While trying to extract the snake, I penaturely fledged one of the restlings, which flew weakly to the ground new the Poison Oak tree + disappeared. Great. I perped into the nest + saw at least I nestling still rside

29 Jule ** GROUP UPPATE **

0 7753+ 9755 Moved to Chargo 20April 1983 = Iweek Cast see- at SHill 6 April (Philip) nest found at Cho-go 9 May.

School HILL ABANDONED Full 83

	School Hill NEST RECORD
30 April	Opened new lower hole in 82 nest tree (blue oak
	SWot exclosure), 1700: 5 eggs, ~ 6-8 days old
11 May	Checked holt via peeper (hole too fragile to oper regularly)
	Lookslike 3, (maybe 4) young ~ 5days, plus
	One unhatched egg
27 May	Banded 3 healthy nestlings, now Juvs. 872, 873,
The second secon	874. See capture records.

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	School Hill West
17 Jan	** GROUP UPPATE **
	1) \$531 disappeared 25 July 1982 = 2 months
	Lastseen 17 May, go-e by 60ct
	1 4674 samedates disappeared
	3 J757 J759 NSAB, 28 May 1982
	9 99 874 + 875 (unbarded 99) moved to
	SHW 25 July 1982 + 2 months. One 9/VB there
	6 oct, two on 3 Dec
24 March	Watching From blind here, 1010: I flushed 3 birds
	as I walked up, including at least 1 certain (and pulsaps
	2) will unbanded 99. 1110, By now I've seen 8530 BPnk-or/M Red/M which I assume is
t der viele tele semme en etter et etter går der etter e	
2 May	4758, plus the came or another PNB. Walkedup here 1330, found a of looking out of
	done hole in the Stewest granary. He didn't flish,
	and was down until I said "hellow. Lookslike a rest"
3 May	Opered the new hole here + fourt 3 nestlings
	~ 5 days old! Still west started prethyearly.
	I should band here on 20 May.
20110-1	Barded 3 nestlings here
	5HW Aba-do-ed Full 83

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School Hill West NEST RECORD

3 May Opered up newhole in granary, 1300:

3 nestlings, ~ 5 days old.

Mymy apparatione

2011ay 1430, Banded 3 fairly healthy nestlings,

Juvs. 860-862. See capture records

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ARF too

7 June

After a long struggle, I finally find the nest here see Mapor back), in dead stad of a Valley Oak in the middle of the thicket between ARF TARF too. Your are banking age too from what I could see perpingin. Also while watching the group here, it is apparent that it consists of a BNB, a FNB, and a 1st year (?) male M/Loren (?), which is possibly B800. If better look at him is needed, however.

29 June

* A GROUP UPDATE * *

(Lastseen 8 Jule 82, gone 7 Jule 1983)

(Present at ARF, too 7 June 1983)

(3) J799 NSAB 820606

ARF, too ABANDONED Fall 83

Nest tree

Nest tree

Nest tree

ARRIVOLA ROAD

Path

ARF, too gram

ARF

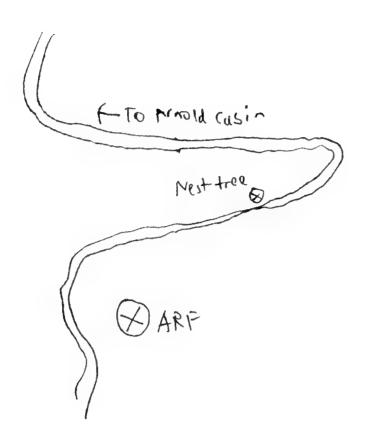
7 May Through sheer luck, while walking was down from the Arnold, Fhappered to glance up at a Valley Oakalong the road, 50 M down from the Big Bend, and saw a bird looking out of a nice new + easy (with rope ladder) hole Seems lite a sure nest.

16 May Walked by again, 1030+ 1400, still a bird looking out.

Finally openup the hole here, finding & basies, ~8 days old (one nestling was quite a bit smaller than the others.

Ba-ded 3 nestlings here, non Jus 880-882. 882 was quite runtish.

> ARF ABANDONED Full 83



Black Oak

17 Jan

** GROUP UPDATE **

O 7320 disappeared 3 May 1982 & 2 weeks Last seen 18 April, missing in nestwatch 18 May certainly gone by 18 Aug

2 1740 NSAB 820526

3) 1828 disappeared 12 Sept 1982 = 1 month Last seen 18 Aug, gone 7 Oct

29 April

walkingby 1245, I flush a bird out of the "usual"
nasky hole in the Vulley Oak next to the granary,

Fguess they may have a nest

16 May

Philip reports co-siderable interest in the Poison Oak Hole (81 + 82 Second nests), but no sign of 9427, and only 9741 going into the hole. Very strage. Also, very quick visits by all birds, so I'm not surc if they have a nest (Philip saw no food in bills).

23 May

Big doingshere: Watching from Slind, 1400, I learn

(1) At least 2 new 99 here: 9680 m / LBlue and

9505 (!) wht/cpint from Al! 9505 is especially.

Meat, because she is a widowed 9 (from doubt of 8100, see

Susais notes) and apparently decided to leave Al, presumusly

because all the 8 helpes there have prevented replacement

9505 is beig tightly guarded by at least 388 (Ithink

8102, 8426, 8691 (!)) and 9680 appears to be being

guarded by 8321 (again, not positive). Both 89, but

98680 in particular, are checking out the PO Hole. 8497

Also seems to be involved in guarding but I'm not

Sure how at the monet. Clearly, BO needs more work

BlackOak Watching 0610: Velly interesting. 3 Al & are here: 7505, 7680, and & 568 whenver mite/wht name, who seems to have a problem in her right eye. Only pussing Interest in the nesthole today, lots of open wing waters, etc, so it looks like anhile before nesting. The 3 nen 49, plus 3426, 8102, 8321, 8497, 8691, were hanging out primarily in the 2° area near the nest hole Hayigout west of the main granary were the helpers: 8689, 7713, 7741, 3742, 8744, x 8829 Cary 6 743 is missing) The 10 grandy area itselfappears to be a buffer zone, with both groups of birds making occasional forays there 0815, I hear lots of noise up by Al. PS in progess Veryquiet, 1300. Thought I flushed a bird from the Vici-ity of the Poiso-Oak hole, but I wasn't sure. Stare Philip checks the PO hole, 0900: 5eggs Via peeper (botton now unreachable). 29 June ** GROUP UPDATE XX 1 7427 disappeared / Murch = 2 months Last seen 112 14 Dr. 1982, certainly gone by 16 May 83. @ 9505 + 9680 Moved to BO from A1 25 April toneets, First evidence of these quat BO 16-23 May 1983. Last seen at @ Arnold 1 by susan o- 6 April. Missing at Alon ZMay. 8743 disappeared too Black Ouk apparently abandoned Full 83

Black Oak NEST RECORD

Slare Philip peeps in poison Oakhole, c900: 5 eggs 16 June Oponod hole, 0915:

> 3 nestlings ~ 5 days old, plus I unhatched runt egg and one unhatched normal egg with full term embryo.

60 July Barded 3 healthy nestlings, now Jurs. 929-931

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SOBO 17 Jan * * GROUP UPDATE ** 1) 7640 disappeared ~ 25 Aug = 3 months 1982 Last seen at nest 18 May, game by 11 Dec. 2 Jul. 737 + 738 NSAB 26 May 1982 4 March Watching here from blind, 0935. Sobo is still doing pretty well, acorn wise 1110, Finally, ofter a Struggle, Eget a Rull census: 0639 Yellon/DBlue, P658 M/CBlue-Black, 9659 M/Blk-or 8736

DBlue-Wht CN)/Red, and 8739 CBlue-Yellow Even though I'm using the blind that's been sitting here since Dec, the birds seemed pretty upset with my presence. 1115, outof the blue it starts to rain very hard. 1/30 end watch. Starting to look like the breeding & is not going to be replaced, which will give us another case of "Firch Syndrome

23 may walked up + Said hellow to the granary holes. No response Nobody in the grandry holes, 1300

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Arnold 25 March 1300, 7568 nauve-wht/wyt-maure and 7680 M/LBhuet Seen sapsucking from a Valley Oak along the fenceline 30 m S of the Keep Out Gate. Susa-reports 8100 assert once again, + no sign of a 78 May 16 May Nosody in any holes here, 1230. 23 May 26 May Hmm, a lot noisier here, 3 days later. After watching at Black Oak (See Ronotes), I suspiciously walkup here at 0900 + finda Power struggle in progress. Basically, this is the story: 1) With \$505, \$680, + maybe \$568 at Black Oak, 4761 was the only remaining fat AI, and she was fighting off (ortrying to) ~ 5 PNB that were harging around. All appeared to be operating singly, with no cooperative groups

as far as I could tell. The only bunded fintrader F san was \$816 white/DBlue-LG- OF Fi-ch(!), At least one 3'NB was aroundy too.

(2) All the A188 were aroud: 8'679, 8762, 0'826 8827: But all nee peripheral to the main the long lost 8100 Yell-Donn Yel-Don (lost a bad on rightleg) is still here! This leads to the question of @ was hearondall winter (prosasiy) an (b) why did 7505 go to BO in the first place? Of note, Al is dead out of acoms, unite BOstill has plenty. Isappose that this could have precipitated

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(26 May) \$505's departure, to "greener pustures.

(3) After going elsennere 1000-1100, I retur at 1100 + find 7568 has returned (at least temporarily) to Al. She and 9761 appeared to be restoring order had routed the intruders to the periphery, and were waking nith the SS friely. The SS, not surprisingly, second to take no part in helping, the TR. It will be interesting to see what happens here Osviously, this has been resolved. We will have to

1130 I walk by + find the place completely quiet.

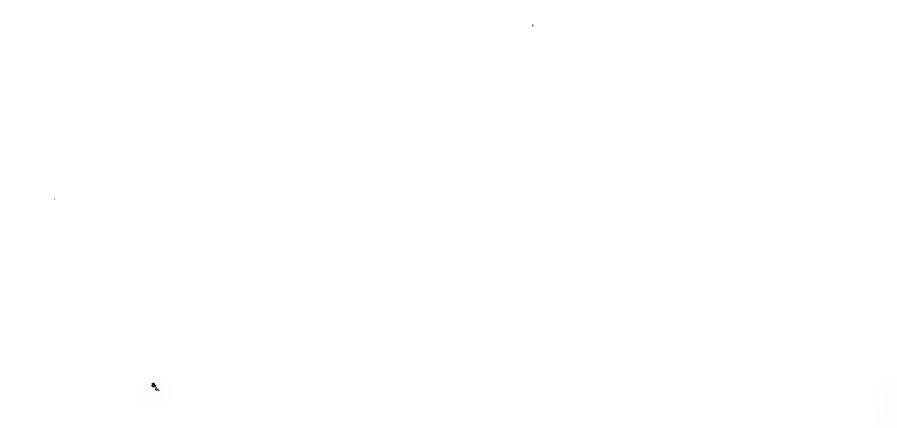
Watch here soon to find out for sure.

Watching here, 1615: Slow, but I do see 7568 m-w/w-m for sure (botheyes appear healthy again) so she did not move to Black Oak. 0762

23 Aug Interesting watch here, 000 0745 - 0930: Only three birds seen, but one is \$505 wh/LPink, who has indeed come back to Al. 7568 and 5679 also seen well. The 3 birds were busy harvesting + lating some q. drysolepis acoms from above the Al granary one of very hew trees that seems to have any acome at all. Lots of Scrub Lays

T.				
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	Keep Out
25 March	1245-1345 F dig up a full census here. P567 M/Red, 8706 M/, and 8705 M/Red-white.
	Stilla fewacorns here, but not many. 7567 seen.
a fam fam to a second	Sapsucking from a Valley Oak Swot the granary
16 May	Still acorns + some birds hanging around here. Found a
	nice potential nest hole that looked fairly new up toward
	Lambert plus one in the wretuned stus where Alnested
	lut year. Both are abit far removed from KO proper,
	but worth keeping a- eye o-
231 uy	Yes keep out hus a rest! In the hole in the VO
	aptoward Lambert, I twice flushed an adult and
ermende Med er is sjegt vilgen Advende glenne men gegen om en og sen og se	twice heard the sounds of very young nestlings (< 5
	days, for sure). The tree is climbable, but I was
	almost up to the nest when I discovered that the nest
	lind was a bit dead and a bit hollow. It will be safen
	to try it later with the rope ladder.
4 Ju-e	1130, I find 100 is out of usable acorns, and I'm
	wordering if the nest may have failed during the
	miserable weather of the last few days.
	1200, Nope, while watching Landert I hear a bird
	wated + baby noises from the 40 nest hole.
	Wro-y wro-y wro-g. This is Lambert's nest!
	See Mattie Lambert notes. Does keep out have a nest?
	It so where is it?
1214-6	Walter finds the nest here in the poor partially burned
	Live Oak near the grandy. Upher nith Philip & short ladder
	Live Oak near the grammy. Upherenith Philip & short ladder, we bod very old (~30days) 3 nestlings, Juvs. 899-901



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Keep Out

(12 June) Scep capreces Fordetails. The young were so old one (1899) belted as F proposed the hole (fortnately retrieved by Philip), and J900 flew (fairly strongly) to a neighboring Valley Ouk as I was putting the birds back in the hole. 899 + 901 stayed put, as fares F could tell. I trust 1900 will be OK.

24 June Juvs 899-901, 9567, 8705 all seen well.

90ct keep Out appears abandoned no doubt a result of the Acorn (rush of 83. No birds, no stored acorns.

Not so: KO not abandoned

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Lambert

* * GROUP UPDATE * *

1) 8545 disappeared. 18 Aug 1982 = 2 months Last seen 27 duly June, missing 26 July (poorwatch) certainly gone by 80ct.

(3) \$720 disappeared ~ 8 July 1982 = 2 months (3) \$862 (unbanded) 11 11 11 11 11 11

Both last see on 4 May, missing in poor watches on 26 July + 27 June, Certainly gone by \$ 9 Sept ansuch

25 March Firstwatch here since Dec, 1030: 3-1130, Nobody has appeared in the granary yet, but I pick up a bunch of birds sapsucting from a spindly Valley Oak SW of the granary, 8546 Lbrn / DBhne, 8624 LBhne-Red / LBine-Red 7775 DPnt/Yellow, and 8777 Blt/wht-Loren all see-

sapsacking. All Only 9720 not confirmed, but she may have been around.

19 May

Nosody in any hales here, 1400 1230

16 May

Again found notody in any hole, 1300. I also watched here abit sceing only \$775 DPNK/Yellow and 8777 BIK/unt - Lorn, although I flushed two other birds. However, this leads me to suspect that maybe 4720 is gone, and Lanet is suffering from Finch syndrome. Another watch or two would be good, here

4 June

well, I'm wrong. Mark watched a sit at the "keep Out" nest, and saw I feeding visit by & Red-Yellow / Red, which just has to be 9720. So Lambert has nested.

Barded 3 Lambert nestlings, Anderneight Jurs. 894-896 8Ju-c

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Lambert

Watching here, 6905: 1030. Nothing, no birds, and no acorns stoned. Lambert seems to have

been abandoned as a result of the crash.

6 Dec Watching here 1110, after Susan and I have polared

~ 1500 acors in the Grandy. All but ~ 50 were put into the fuller "main" grundry, About 50

were put into the "south" fe-celine Valley Oak (82 nest tree) ~ Who 1100 of the acoms were collected

by Susan From Chens Ridge (mostly small Valley Ouk,

Live Oak + a few Black Oak + Golden Oak). About 400 were some dry, hard acoms F collected (washly Valley

Oak + Live oak about 50-50) in 1982 a-1 had

been dryed, the sitting in a bag in my office.

1210. No action here yet. Lots of Scrub Jays flying around (many carrying acorns) but none yet have visited

the granary.

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Fanny Arnold Watching here 1130-1245. Decent watch I see 8835 M Yor-wnt 9834 Red / PNB, and 8797 White / DBINE - Red. No real evidence that 4796 is here, but she might well still be here. It appears to be OUT of acorns! No acorns, no birds, and notody in any holes, 1200 16 mmay 23 May Brachusse Just us I was about to give up on this group, I see 9834 Red/Blk-white in the granary. Still no evidone of a nest, though. 4 June No birds, nobody inary 110/es, 1200. 16 June watching, 0630: 0900; Goodwatch. 0835, 7834, FNB, 7796 all seen well trepentedly, after supsucting from a blue oat on the Eside of the ravine. 9 Only 5 797 was missing, and he may be gone. Also, a 8NB was here for anhile, duting like he may be part of the group. Further watching would be use Kal. The main point is that FA appears to have no nest: No interest in holes or food-carrying seen. FA seems abandoned: No acors no birds soon by Sandy (See her notes)

Not So FAnot asadorer



Upper Arnold 2

17 Jan

** GROUP UPPATE **

1 J781 disappeared 2 Sept 1982 2 2 months

Lastseen 27 June, Goneby 7 Dec

7 May Nobody in any holes here, 1330

Manay Success! 1130 I flush a bird out of the 82 nest hole (upper hole in the Blue Date) and find 4 very fresh eggs ~ day 2 (I'm not at all sure that the clutch iscomplete). Ishould check this hole again scon to

confirm final & clutch size

23 May Didn't finsh a , body out of the hole who I walked past at 1430.

64 June Balynoises from nest, 1200

20 Jule Bared Brestlings here, with one dead nestling. See nest + capture records,



M. fornicivorus

Upper Arnold 2 NEST NECORD 16 May Reopered upper Blue Oak Hole (1982 nest hole), 1130: Heggs, quite fresh, ~ day 1. 12 Basynoises + au brooding adult at 1200.

20 June 1645, Bonded 3 nestlings (~24days old), now Javs. 914-916. Onedered 20-day old was also in the nest, meaning all 4 eggs hatched.

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	Lower Arnold 2
17 Jan	* * GROUP UPDATE **
	1) J784 disappeared ~ Oct 5 1982 I 2 morths
	Lustseen 26 July, gone by 11 Dec
29 April	Flushed two birds out of the back hole at 1300,
	but pelping in I found no eggs.
70 May	Flushed a sird from the back hole, found 3 eggs about
	bedays along. Nestrecord has details.
16 May	Checked the hole by hand over the hole". Iteard at
	least two, maybe three young nestlings.
4Jane	Burded 3 nestlings, quite old (probasing harched ~10 may)

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M. formicivorus

	Lower Arnold 2 Nest Record
7 May	After flushing birds from back hole, 1315, Checked note.
	3eggs, ~ day 6.
23 May	"Busynoises" from hole, 1430.
	Barred 3 old (28 days) healthy nestlings
	877 - 879. See cap recs.

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	\mathcal{R}_{i}
17Jan	** GROUP UPDATE **
	(1) 9871 (9NB) died of umatural cause \$40ct 1982
	2 Juvs. 764,765,766 NSAB 29 May 1982
	3 J,763 disappeared 23 July 1982 + 2 neeks
. ,	Lastseen 27 June, gone by 18 Aug
4 March	Watching here 1230, after walter reported the collapse of
	the main Black Oak granary tree. However, F still can
	fird ~ 100 arorns stored in adead limb of a Valley Oak
	40 m down the ridge, hear the very tall, spirally valley Oak.
	1305, success. A PIUB and a & NB definitely still
	here. First picked them up on the border of
	the woods between Bianca + Black Oak. Saw the
	BNB fig to the knoll VO, then the & fly to the
	gra-ary very purposefully to chase a Plain Titmouse.
	She was joined there by the JNB.
BlbMay	Nosody in any holes, though birds + arons appear to be
	presat
	Nosody in any holes 1430
	Nosay in any holes
24 June	Watching 0740.0900 OK. One of both
	Fairly swely (but not positively) unbarded. No sign of a nest,
	though Fdid see the & holding an entire acorn con a tea
	monents. I guess they still have a few acoms left.
9 Oct	1045, karrits + agood manber of stored acoms

(Golde-Oak + Black Oak) indicate that Bianca is occupied.

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Poison Oak Hill

2/May

1600, I finally get up here in the annual search for nests, and I do very well indeed. As I walk up into PO#1, I flushabird from the vicinity of last years nest, and Climbup, and find 4 healthy 12-day olds in the 1982 nest hole.

Continuing on to PO#2, I see nobody looking out of the 82 hole but on a hunch I climb up and Find 3 good looking 16-day olds, plus one unhatched egg. I should come apagain to band both groups in about 5 days.

From PC#2 Theaded down the Ridge toward cfirsh Ridge!

Road 3, ad found fo #4 1- an apparent state of asadomnet.

No acoms , we no sign that any acoms had been present for some time. Yet, I heard birds there from PO#2 ad further down the ridge, near the old site of PO#3 I san 3 birds, but no sign of a gravary or nest.

25 May

Banded 4 nestlings at POHill #1 (Juvs. 865-868) and 3 at POHill #2 (869-871). Sce capture records.

Itastings Artificial Granaries 19 Dec 1982 BROWN -- 1030, Nobirds around here, and nearly all the acorns are gone. Only ~ 5 left in the bottom of one of the blocks. WOOLFENDEN -- 1100 No birds, but still plenty of aroras, though a there few have been eafer with the shell left in the storage holes. HORSETAIL -- Joanne hasreported birds harging out here the last few days, but I find notody here at 1130. No newacorns in "old" horsetail, but the ones in "new" horsetail look untouched. 5Jan 83 Walked by refute 1, 1030: No activity, and it looks like all the acorns are gone.

		-		

R.L. Mumme 1984

Hastings Reservation

Melanerpes formicivorous



	ACORN ADDITION EXPERIMENTS
24 March	Added 100 acorns, placed in church of styratoan
	gra-aries, to the following territories. Horrs were
	Quercus chrysolepsis
	O Road 3 in syramore: Birds already reoccupied
	@ Finch in syramore:
	3 Gate in sylamore
	4 Westgate in sycano-1
	(5) 1800 in Valley Oak main granary
	© 1500 " " " " "
	5 School Hill " " " Rescrupied
25 March	Added styrafoan + acorns to 5 more groups.
	Blomone Valley Oak Main Granary
	@ Blom 3 In Blue Oak 82-83 nest tree
	(D) Dark Hollow - In 82 nest tree
	(perhaps birds already here) (D) Hay Blom - attached to utility pole adjace-t togramary
	12 Low Hay In VO main granary
14/4p:1	Added Styrufoun + 100 acorns to
	(13) Plaque - (utility pole)
	(4) Corral Vicjo Grande Vulley Oak Main Granary
	Added 100 acors to the styrafoan already i-stalled at
	Road 3, Low Hay, + Darts Hollow; Gare Blom 3
	+ First 10 acoms just to keep then interested
22April	Added 50 Acors to Low Hay Plaque Road 3 (Vorale
•	Dark Hollow Low Hay, CuGra-de, Road 3 totally out of
	the 100 give- to them last neek. 30 remained at
	Plaque a-1 28 at Dark Hollow.



	Acoin Addition exp (10-t)
	Added 50 acors to all 5 groups (Plaque,
	Low Hay, Road 3, (V Grade, Dark Hollow). All
	had extrausted their 50 give- o- 22 April, except
	Dark Hollow, which had 3 acoms remaining.
	Gave 50 alons to 1800 + Blom 1, hoping to add them
	to the experimental groups. Arons remains 5800.
2 May	Added 50 410-25 to 7 groups: (Plague, Low Hay,
	1800, Blom 1, Dark Hollow, (V Grange, Road 3) Acorns
	remainine, 5450
5 May	Added 50 acorrs to all 7 groups. Allexhausted
	5100
8May	Philip adds 50 acons to all 7 groups.
	MA-4750
11 May	75 arong to all groups
4 00 May	
17-18 AY	75 acors to all groups
21 May	75 aroins to all groups
25 ma-1	75 acors to all group
30 May	75 alors to all groups
5Ju-	50 awrs to all 7 groups
13 Ju. e	75 acoms to all 7 groups

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Chongo

9 March

** GROUP UPDATE **

BNB (1849), 9753, 9755 abandon (hongo summer - fall of 1983. Nest failed by I June 1983. Denise heard (did not see) birds here 30 Jane 1983, Clearly gone by 16 Oct (Sandy). Say Chongo abandoned I Sept 1983 - 6 weeks



	Buckeye
9 March	** Group Update **
	@ 7666 disappeared 5 July 1983 = 1 month
	Last seen by Denise 2 June missing 7 Aug
	2 7664 disappeared 10 Sept 1983 = 1 month
	Lastser- 7 Aug gone by 13 Oct
	3 8663 disappeared 20 June ± 6 weeks
	Last seen by Susan 5 May, gone by 7 Aug
	4) 7 NB (1876) disappeared 2 Dec 1983 ± 6 weeks
	Cast seen by Sady 190ct, gone by 16 Jan
13Ju-c	** GROUP UPDATE **
	1) FNB (1890) Moves to Buckeye ~ 18 March 1983 = 2 weeks
	First seen by Derise 6 April not present on 4 Mar
and the same and the same areas and the same and an animal absolute article (France and Street and Street and S	

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Plaque

3 March 1200, A second birdhas briefly joined the lonely 3521.

After hearing wakus Beth and I find 3521 plus a & whose bands I read as or-unt/m, which is not easy to reconcile with anybody. Most likely candidate may be 752 LBINE /LGIN-LBING LGIN-LBINE/M of POHIII # 2, banded as nestling in 82 and not followed since. Anymay, 0521 chased this bi-d around about the, but chasing was not particularly enthusiastic, only intermittent. Finally, the mystery + flew off toward SHill + PO Hill ~ 1315 By 1435 still very quiet, no action.

4 March Sofar Loday, I've heard very little activity here, and no evidence of a second bird.

9 March 44000 1600 - 1730, after a tough struggle I manage to (almost) cafirm that there is a new 4 hore, and it LBINE/Lon-LBINE, banded as a 1982 nestling at POHIII #2. Still would like a few more + better looks, because the CBlue on the split bands is exceedingly pale Anymay, she and 8521 seemed very rozy today: No sign of aggression between the two, and several times they were perched close together. Only a Few waters however

** GROUP UPDATE

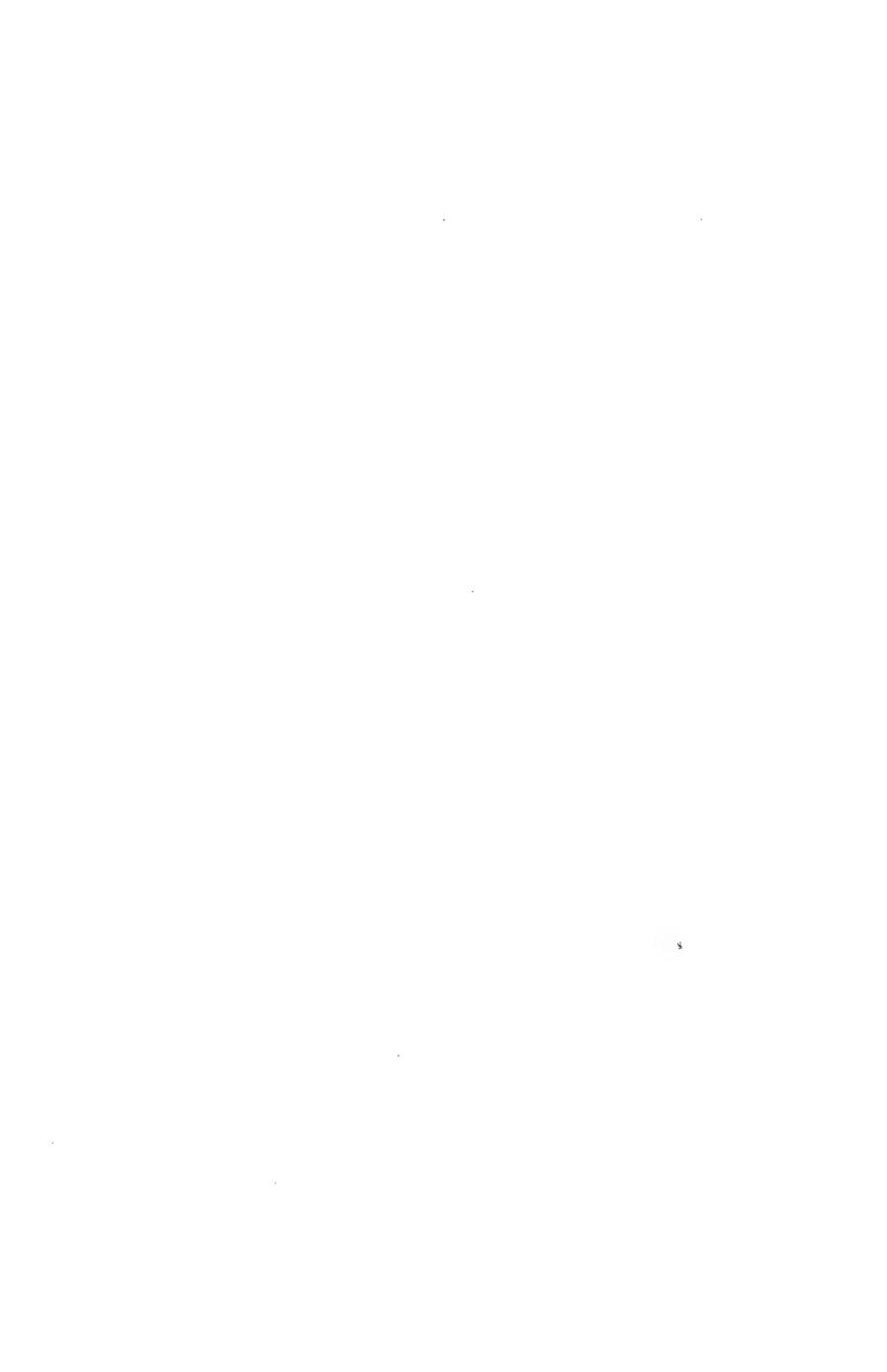
Present 17 Ju-c 1 494 disappeared 28 June 1983 = I week missing 8 July

@ 9496 disappeared 30 Dec 1983 ± 2 weeks Present 14 Dec, gone 15 Jan following aggression

By from 8521 on 14 Dec.

3 8660 returned to Plaque 1 Sept 1983 + 1 month

	Plague
(9 Marh)	** GROUP UPDATE ** ((ontinued)
	8660 first seen back at Plaque 20 July, but
	abset 21-22 July, Presit 5 October
	(F) 8721, 8723, 8660 disappeared 30 Dec 1983 = 2 weeks
	Last see- 30 Nov (but at least two were around
	14 Dec, all gone 15 Jan.
	5) 9752 moved to Plague 6 March 1984 ± 2 days
	First seen 3 March, well established 6 March + 9 march
7 April	Watched here yesterday, saw 8521 + 9752. Today
	(1345) F hear a lot of waters + Find 8521, 9752
	(1345) F hear a lot of wakus + Find 8521, 7752 m/Dorer- a-d 8723 Don-BPAK(W)/LPi-K. Abit ot aggression from
	8521 (Saw 521 prik 723 are) but it looks like
	he will be accepted. 7752 see-s happy to see 723.
	Dor't know if 8721 (who was with 8723 2 weeks ago
	at Low Hay) will return, too.
13 April	
	Jes 1130 I walk outside the last + Find 3721 Tellow/Lon yellow, along with 7752 and
	3521. Did not see 3 723, however
19 Apr:1	After adding Styration - 100 Acors on 14 April F
· ·	find 60 acoms remaining in the Styrafoam at 1200
	Gro-ary watches here reveals @ 8660 is buck (see
	20 April, but absent on = April. He seemed very
	d'apleased with 9752 for some u-known reason. 3
	21 April, 8721 chusing 9752 around, denying her
	easy access to the granary Hard tose why 80'660
	+721 Should be so displeased.



27 April Turmoil at Plague, 0830, 8521 87218723, and even 8'660 (who was looking solid at Pipeline a Few days ago) here, but no immediate sign of \$752. It so here are at least 2 FNB, being chased around by the 88. Has the aggression against 9752 finally forced her away! Asof 24 +25 April, my casual glaries indicated a lot of chasing still going on. 1200 Pretty quiet now. All 4 88 See- again Plaque co-tinues to have its problems, 0800, a- u-badel 4 here, being chased around most vigorously by 8521 also a 5it by \$752 23 May Firally settled him. 0700. 0830, Frind 5521, 9752 8721 8723. B'660 was here yosterday, but not this morning. No chasing of 9752, so it looks much better for her. Also, Plaque is excavating a new nest hole in a dead state of one of the ferreline" Valley Oaks along the water ta-1- hill ravine. I cli-bed up t found no eggs, and the hole still has aways to go. It also looks like 8521, plus prihaps 8721, 15 guarding 9752, Will have to keep tabs her Definitely not settled. A minor power struggle in progress here all afternoon. 8660 (at Warp 5 in the morning) 3521, 8721, 8723, all here but no sign of \$752 7578 of Road I and at least 1 2/VB here, garricking and being chased by the 38. However by 0900 on 25 May 9752 is back looking cozy with 052, 0721 0723 (8660 presumably back at Warp 5), Huh!

Mague 6 Jule Every morning for the last neek there have been i-truders hanging around Plague. White pouragesting One that has been around the rasin utility pole is 7847 Red-B/K/White-Red, the 83 7 From Blom 2. She's been garricking + wakuing on the periphery. Edu-e 1200 a missor PS here, complete with +785 + 9787 From 1800. 9787 seens Friedly with 8521, 8'660, 8721, 8723, but not 9785 Didn't see 7752. More later Due Watching here 0900-1030, this is the story. 098785 + 7787 from 1800 spon to be the main ff hore, although at least 1 (myse 2) FNB are around, too. Also see- was 7847 of Blom 2, Plus a 9 whose Lands Frend as LPILKEYM. It's possible that that Fis 7752 but a better look is needed. A lot of chasing r garricking during the watch. 8521, 8721, 8723 all here but no 8'660 this morning. He perhaps is out there at Warp 5. Her ser-s to be at warp 5

in the mornings, Plaque in the afternoons

1600 Things much calmer here

* * GROUP UPDATE

1 3723 returns to Plaque 7 April 1984 At Low Hay 23 March, First See- at Plague 7/4 pril 2 3721 returns to Plaque 13 April 1984 (Firstser-thatdate) (3) 8660 returns to Plague 20 April 1984 Though shuttling schneen Plagot + Pipeline-Warp 5 May-Jule.



(25 June) Watched here, 1400, I find 8521, 8721, 8723, plus (shit!) a FNB! Burner! No sign of \$752 These 4 birds seemed quite happy together with nc obvious signs of aggression

22 July During the last week, still a lot of noise (wakas, some garricks, +drums) at Plaque. Watching at 1030, I Find a +NB again Plates Plus 8521 and 8721. 1120, I see 3723, too. Cooks like a studie group of tour All birds

9 March The Y gra-ary, which halfway fell in a March 83 storm, is now learing precariously, ad will probably not last long. * * GROUP UPDATE ** 0 8669 9675 aba-do-ed & 15 Mary 1983 ± 1 month Last see- there by Denise 18 July. No evidence of any birds here 13 sept and 60ct. 4 April 10 Bill + Walter reports birds harging around the aviary T, pines, etc. One of the dviany bird, walter booked at was 3669 or - DBIne / white I walk by at 1545, See no action 12 April 1230 who should be sitting in the Louir Barn locasts than 8754 the 1982 SHill nostling that hungout war Don/A at I a good part of last summer. Spu- well com/unr-06~ Check Derise's notes. I trink she has sur this guy recently Down toward the purpase a ZNB and another J (I syspect SHill), Yes! It is QNB + 8669 who then exchange workes with \$754. Neut Y products a rest, see nest record

30 May

GROUP UPDATE **

1) 8669 \$28 8754 9675 found Y 16 April 1984.

10 8669 back at SHill 5 April, All 3 present at
You 16 April)

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Y Nest Record

30 May Opered new high hole in the syramore just below the Y: 3 eggs fresh. (Clutch may not be complete)

18.8 × 15.4 (runt)

- 3 26.7 x 20.0
- 3 25.6 × 20.4

6 June Opened hole 4 eggs Should hatch - 11 June 4 26.0 x 21.0 should bad ~ 3 July My June Checked nest 1100: Only 1 nestling, no sign

28 June Checked nest, Cold + Empty: Failed

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	1500
9 March	GROUP UPDATE **
	1500 (8297, 8622, 9601, 976715, 9818) asa-do-ed
	15 Aug 1983 I I month. All 5 birds last seen 17 July
	no evidence of birds here at all during 13 Sept
	avora survey, or one 60ct
4 April	See Philip's notes for the series of interesting events
,	that have transpired since the acorn addition
	Here at 1630 are a FNB, plus 8770 + 8771 According
	to Philip, the artificial gravary is about out of acors
	but I saw the FNB carrying a - aron bit to the Para.
	from the 2" granary. I also could see at least 15i-4
	0- SHill as I was watching The 3 birds here.
11 April	Interesting watch here 1015-1045, 3770, 3771, 7 NB
1	all here, but only 8770 + PNB were together. These
	two were always in the grand- y together, wataing together, etc.
	Theoply time I saw 8771, he was in the "tree house"
	area SW of the gra-ary. He karrited a few times +
	aukad to himself, but that was about it.
	1145, 6771 Flew over here togrammer. See 1800
	notes
26 April	Ah, yes! 1030, Ffind two old friends in residence:
,	8297 + 1601 Loth, see- very well, See Philip's notes
	For 23 April He saw 8622 on that date, but
	no evidence of a third bird today. See 1800 notes
	for this date too.
29/tp:1	1000-1100, Looking here I once again find only 8297 +
	9601, No evid 1-12 of 8622.



Acon Woodparter

1500

** GROUP UPDATE AX

@ 8770, 8771 PNB (1891) 28 March 1984. All 3 first Seen at 1500 that date, 88770 + 771 also tried to co-trol 1800

@ 8770 8771 moved to 1800 23 April 1984

3 7 1891 disappeared 23 April 1984

@ 8297, 9601 returned to 1500 23 April 1984

Very interesting developments here: walking by at 1000, I see 3 birds hore: They prove tobe
3297, 9601, a-1 9682 CBlue-Red/M/CBlue, 9601's

sister from Gate, who has been seen haying out at

Warp 5, Avery nice case of sisters moving independently, several years apart: 7601 in August 81 (the May 82),

and 7683 in June 84: Good Stuff. All 3 Sinds 100/

very confortable together, flyatching from Same tree, etc.

1800

9 March Conday ** GROUP UPDATE **

> 1 9785, 9786, 9787 left group 10 June 1983 = 2 meeks Last seen around 1800 off ton during May, clearly gore by late June. 4787 seen intruding at Plague 27 Aug (2) 1800 (9193, 8770, 8771, 8774 J917 J918) aba-do-ed 17 Aug 1983 ± 1 month Lust seen (all 6 birds) on 21 July. No birds present here on 13 Alu Sept and 6 Oct

3 1919 NSAB 21 June 1983.

5 April

Things are very co-tusing hire Yesterday (4 April) PM I found \$650 (regularly), \$648 (FIREtingly) and 2 rather dark-eyed 38, neither of which I rould get the bands of. Today, I find the same two fx and still have notuck seeing the bands of the two of. I'm getting the impression, however, that 86770+771 are co-himing to shuttle back + forth between 1500 + 1800 When I started at 1000, the 2NB at 1500 was garricking + makeing to herself almost constantly. Also During this time, I could see 280 + 279 together in NE 1800, At 1045, the commotion from 1500 served to stop and no 85 seem to be around. Only I wear, lett in the artificial granary 1140, confirm 6771 here with

11 April 1100, 7648+ 8771 together here for a long time, the-8771 flew back to 1500 (where he was assert earlier) I suspect (scel500 notes) that 3771 will eventually more here.
NO cuidance of 9650. Saw 9648 eatan acom bit, 50 some
Still known.

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	y ·
	1800
26Apil	Watching here, 1115-1200, I Find 8771 (evicted from
	1500 by 8297 + 7601) but no 2NB; instead, 7648
	is indeed here and also no evidence today of 5'770
	(though Philip saw him theyonamys o- 23 April)
	Arg! 1100, I find a FNB here, wakeing to herself,
	with no evidence of other birds around. At 1500,
	Freturn and give 1800 50 acons, hoping to inquider
	some permanence by some aside to
24 May	Short watch hire 0810-0830 with great results
	Short watch hire 0810-0830 with great results F193 DPAK/M is back! One of the old ones in 1886mi
	and a worldhouse of at that. Also see were 7785 Day well
	9787 Red- Yellow/M and 88770 LBINE/LPi-18-DBINE
	and a worlchorse of at that. Also see- well 9785 DAME-YEVED. 9787 Red. Yellow/M and 88770 LBIAL/LPi-18-DBIME 8771 Green-Black/ and 8774 Yellow / Black- CBIME.
	Just about a full continget. It will be interesting to
	See if they nest, anit all the 92 lay,
13 Ju-e	1800 does produce a nest (5 eggs): See n'estrecord,
	Philips i-cubation natches But only 9193 laid:
	Shortly after laying 9785 + 9787 turn upata
	pour straggle at Plague
	** GROUP UPPATE
	1) 8770, 8771 ford 1800 23 April 1984 (see 1500 notes)
	2 9193 9785 9787 8774 return to 1800 10 May 1984
	Before 9193's return \$648, \$650, and a \$NB were
	harging out at 1800 during April

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	1800 NEST RECORD
6 Ju-c	Checked 82-83 nest hole 5 ~3 day eggs
AND SECURE SECURITIES	should hatch ~ 15 June
	ba-d~8July
13 Ju ~	Measured 5 eggs
	(i) 23.8 × 19.7
	2 23.6 × 19.6
	3) 25.0 x 19.4
portunados digentaciones caracientes el 1871 despuisibles bustinos	© 25,3 × 19,4
	(5) 22.7 x 18.9
28 Ju-c	Perpedia, 1000: 4 13 day basies
	Iti + Phillip bad 3 nestlings here. Don't know
	what happend to the fourth. Maybe fell vat.



Melanerpes formicivorus

Haystack Blonguist 8 March 0930-1000, Hay Blom still looks abandoned: No sign of reoccupation, despite warm, sunny weather. 9 March * * GROUP UPDATE ** 1 Juus 936, 937, 938 NSAB 19 July 1983 Although one was probably alive on 14 Sept. @ Hay Blon (9604 9711 8571) abandord 28 Sept 1983 = 2 weeks. On 14 Sept 1983 acom survey I saw one adult & and a juv. in the grandry, Birds nere gone for good 12 Oct 1983 23 March 0900, I flush a woodpreker out of the ferceline nest tree here, The bird flow to the trees around the poison oak patch, the continued on to the Low Hay area. 0910, a PNB gives 4 garricks right at the summit et itaystach. The at 0925 I spot a scood PNB (Soth 99 in sight at one time) poking around in the granary this latter & later flew off to the forceline tree. These two qq are clearly not a unit. In fact, both seemed to be operating alone, without 33. The second & seems to be pretty much in residence here, but solo 27 March 1220, First watch after installation of artificial granary and acorns on 25 march. 1245, No evidence of o-y binds around, and no Pridere that anybody's bee- eating the acoms, Perhaps the PNB of 23 march

was an early visitor. 5 April Santhe Lon Hay Birds Ely Over here (8571 + 4NB) and I find still 75 acorns in the granary

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	Hay Blom
13Ju-e	** GROUP UPDATE **
	1) 8571, 9604 9711 found Hay Blom 11 May 1984
	all wee at Low Hay April - 11 May
name talah sepikal artaga -atragasinda papinakanta pangan palah dah da di dari se	
agge-taligness garman eghe dissessablish film agreens county the organisation are agreed to be agreed and the county	
	The state of the s

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Melanerpes Formicivorus

Lower Huystack

8 March Watching 1000-1030; Warm, sunny day, but no evidence of any birds here yet.

1 March ## GROUP UPDATE ##

1 Juvs 923 924, 925 NSHB 29 Jule 1983

2 8857 disappeared 1 July 1983 ± 2 weeks

(present during spring granny consuses, absent summer;
ser Philip's notes).

3 Low Hay (9587, 9524, 8NBI1880], 8858

8 NB [1886], 9926) abandoned 18 Aug 1983 + 3 week

Last seen (all birds) on 23 July. Absolutely

hobody seen in full accorn survey 14 Sept, 12 Oct.

23 March Good news here! Low Hay is orcupied, by 3 banded birds.

Hom! My colorbli-docss strikes again! Only & DBlue-icellon(1V)/rellow From square is the 10-glost \$15 9650 11 / M

(Formerly of Blom1). Not assolutely sure, of course.

This will take a-other look.

27 March 1250, First water here since artificial gravary w/ 100 acoms installed on 25 March. 1330, Musical Chairs!

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Low Hay (27 March) Instead of Seeing 3721, 8723, ad 7650, I see two Completely different birds! They seem to be

8571 M / CBINE-BINCK (pretty sure) and a q

Lorn-Dorn/M whose bonds I read as Lom - Dom/White (or something like that: Sure of the light-dark split prethy sure of white, rertain of metal). They seem at home and well established. What's going on? Interesting that 8571 would come to Cow Itay when his old haunts of Hay Blom + Gazebo appear to be available 1350 Now 7650 shows up DBILLE-TELLNIM, leading to the suspicion that the other & is her du immigration Partner \$649 (0-648?). I will have to check. No activity or the gracy limb, but front only 75 acoms 5 April Here 1200, 8571 m / CBINE-BIK, plus a & which I an almost certain is unbanded. Bom Sit in the granung ~ 10 min, then fly off toward Hay Blom, (Philip has seen these birds Lor ut least 0571) filthing acoms from Hay Blom. 13 June ** GROUP UPDATE 1 8571 founds Low Hay 27 March 1984 (2) 7604 7711 move to Low Hay 9 April 1984 These 3 birds co-trolled Low Hay + Hay Blom u-til 11 May forced to leave by 9524 28NB1 3 3571, 9604 9711 more to Hay Blom 11 May 1984 4 4524 3NB 3NB (1892 1893) moveto Low Hay 11 May 1984 JNB may be same as 83 &NB

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Low Hay NEST RECORD

16 July Barded 3 young ~ 24 days old here in the "usual"

Lins 2 - 1983) nest hole. Philip had found the

nest earlier. See his notes.

	Gazebo
9 March	** GROUP UPDATE **
	1932 NSAB 80 7July 1983
	2) 7570 disappeared 20 March †983 t Zweeks
	last seen at Gazebo 5 March Gone by the
	beginning of April or so (see Susan's notes). (3) Gazebo (9653, 9819, 9820, 8822, 8821, 8836)
	aba-doned 7 Sept 1983 ± 1 month, 8718 and
	8836 were there 3 Aug. Everyone gove from Gazebo
ann ann ann an Air agus ann an Air ann ann an ann an Air ann ann an Air an ann an Air ann ann an Air ann ann a	10 Oct, 8836 probably died, because his sibs
	(3717, 8718), returned to (V Grande. The two & helper
	(821 and 822) may have left the group earlier
	but its hard to say,
	4) 8717, 8718 returned to CU Grande 75ept 1983 = 1 month
	(5) 3 Juvs (933, 934, 935) all see- 3 Aug 1983, Abadoned
	Gazebo 7 Sept 1983 + 1 month
12 April	
	aroud.
13 June	* * GROUP UPDATE **
	1) \$653, 8717, 8718 found Gazebo 17 April 84
	8717, ad to a lesson degree 8718, wee at Blom 3

during late March and the first half of April

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Gazebo NEST RECORD

13 June Firsted a bird out of 83 (10w) nest hole

15 June Checked nest: 4 eggs, 3-4 days old

(D27.8 x 19.0

Expect Latching 23-24 June

Back 15 July

(P 26.1 x 19.0

27 June Checked nest 0815: 4 basies, -3-4 days.

Back ~ 16 July.

16 July Ba-dock 4 nest 1095

All 4 were very poody developed, Of low weight, a-d half starved.

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	Blomone
9 March	** GROUP UPDATE **
	D Juv 920 NSAB 12 July 1983
	a Blomone (8492, 8830, 8832, 9808, 9809, 1921, 1922)
	abandoned: 25 Aug1983 ± 6 weeks. All birds were
March	Seen 12 July gone 10 Oct. Walking past ut 0920, Philip + F see 3717 Yellow-Red/Mellow
	of (V Grande, exploring the granary, poking around in storage
	holes, having it all to himself. Philip watched here 9 march
	and didn't see anybody. Whether he sticks around remains to Sessen.
SApril	A look here, 1245, roveals a single Waste who o' whose
	bands I read as M/Black Sounds like it could
	be 8492 returning, but I'll need a better look to
	eliminate the possibility of 8571. No evidence of
	other birds around. 46 acoms remain in the styrafoam.
7 April	34 Alors and no birds have at 1200. Philip watery
,	for 2 hours from the blind and saw nobody.
9 April	Aquick look here or awindy, chilly afternoon, FFI-d
\	a FNB alone in the granary. Quecous remain here
12 April	Passingby last night I saw a lone bird here but I
	find nothing 0830-0900
26 April	Very breezy watch 0900-1000. I see 5492 m/BIK
	find nothing 0830-0900 Very breezy watch 0900-1000. I see 5492 m/BIK P812 DBINE/BIK-LPINK 9808 or/ and \$ 4812
	809 m / (while 9812 in signt elsewhere). This is
	Me the same situation Philip reported 23 April, though
	Isav 9812+9808 ut CV Gra-de the same day.
	Alsosaw 9854 of Gate intrading here. (Note- By this
	dute, 9854 was probably moving to Ott Corral

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Acom Woodpriker

Blom 1

13 Ju-e

* * GROUP UPDATE **

- 1) 8492 foods Blom 1 5 April 84
- 2 9808 9809 return to Blo-123April84 (these 99 shuttled to x From (VGrade Juring late April)
- 3) 8830 832 return to Blom 1 3 May 84

	,	

Blom 2 9 March * * GROUP UPDATE ** 1 Blom 2 (8846, 9847) abandoned 17 Aug 1983 + 2 months Last seen by Philip 25 June: Gone 10 Oct.

* * GROUP UPDATE **

1 Juvs 910, 911, 912 NSAB

(2) 4767, M 769 M 839 9841 disappeared 15 March 1983 I 2 months, All cought in of Dec ambush, not seen again

+ missing IJuly

3) 8768 8840, 1913 distrip as and one of 21 Aug 1983 = 6 weeks

Last looked at 1 July; Blom 3 abandoned by 11 Oct

L5 acords renairing here instyratoum growing. See

Philips notes. It seems likely that Blow 3 may nowbe occupied by 8717, 8718, and a PNB, OThere

3 birds were haging around here (betness Gazebo CV

Grade + Blom 3), while Denise watching (V Grade at

the same time, saw FNB+ 3837. @ The quith 3717+

8718 drummed, not to be expected of an old resident

Frifi-deed that's who she is

1135 Yes! Back in the Blom 3 granary are

8717, 8718, 9NB, Sehr Gut. Lots of wakaing home

tro, I'm now certain that Bloom 3 is occupied

by these 3 birds.

12 April Aquik 100k 0945, reveals 6717 and a quita a

very heavy left mustache Back by 1100, I find

that same 7 (9NB) + 8717 again, but no trace of 8718

Notever appsuggestion that a 3rd Lind night be

around.

13 Jue * * GROUP UPDATE

0717 8718 with he- u-til OFNB Fourts BLM3 30 March 84 iate Ap-il

2 3768, 8769 return to BLM3 1 May 84

1984 R.L. Mumme Acorn Woodpecker Blom 3 NEST RECORD

27 June 1100, Found surprise nest in Valley Oak in hollow betwer- Blon3+ Gazebo + CV Grande.

2 18-day nestlings, banted 944+945.

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Acorn Woodpriker

	Dark Hollow
9 March	** GROUP UPDATE **
	D 3824 dissappeared 10 June 1983 1 2 weeks:
	Present 24 May missing 30 June
	@ 9825 disappeared 13 May 1983 = 1 week.
	Present 2 May, gone by 24 May.
	3 Dark Hollow (9695 9696, 8584) abandored DH
	75ept 1983 - 1 month. 9695 8584 seen have
	on 3 Aug. Clearly abandoned by 11 Oct).
7 April	0815, Worder of worders, 8584 BPINKIMAAVE has
	recreapied Dark Hollow. He's here alone Karriting
	and occasionally drifting & into long bouts of garricks
	No evidence of other birds, though 8584 has wakeed to
	himself occasio-ally, also checking out the 83 rest hole
	Still 25 acoms in the granary
	1030, after seeing a FNB on fly this way Froncus
	sure e-ough, I come over ad finda FNB nith a & Cassumed
	3584) She are knorkedon a- aron- for anhile, then
	took off solo up toward the Noak knowl of Blonon.
	She wakard once to 8584, but I'm sure its premature
trajik dhanaman kalangi kayanan dhanji garahayan ka kalan kalan dhan dhan dhan dhan dhan dhan dhan dh	to co-sile-her part of the group.
	1035, 7 + 8584 riturn for amount, the 9 takes of k
	House Gazebo. 8584 Karrits + garrielts for ~ Juin thereafter Another change! 1000 Ffind 7819 Red / white yellow of
12 April	Another change! 1000 Ffind 7819 Red/uniter rellow of
	Courebo here i-stead of FNB. Also san 8584".
	3584 chused 7819 mildly afentimes, but 7819 has
	looked pretty possistent. L 5 acons remain in thy
	styrutoam here, though Fsaw 8584 with a bit.

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Dark Hollow 23 April 0630-0730, I confin what Derise has been seeing. Park Hollow now has is 1982 composition: 8584, 9695 M/Maure and 9696 Or-wht/or-Bik all here + seen well. Also a lot of intracion, including 8721
m/Lw-Yellow from Plaque. 15 May After flushing a 9 from the 83 nesthole, Incture with the rope ladder but find no eggs. 16 May Watching here 0605: Su-vagu-, at 0705 76950-level the hole left at 0725 I climb up and find I feshegg The 26.1 x 19.1 mm. Nothing really unusual usout the egg. All 3 Sirds (3584, 7695, 9696) see- well. By 1100, Nobody except 3584 had e-tered the hole, though 7 696 had take- a good long look at it. With Beth watching with me, a long wait, but 1145, 7696 enters finally, then flies out innediately with the egg in her bill! Yeah! Carried to the 82 nest tree, but the Flost truck. Tessir, 7695 laid, 9696 (the victim the previous two years) tossed! Beth's first egg toss 17 May Watching 0615 068 0740, Nothings up. Both &q paid brief visits to the nest But no eggs laid. 19 May Watching 0555. 0608, 7696 e-tes, 7695 follows at 0615. 9695 leaves at 0625 Followed by 9696 at 0630 Both 99, these plus 8584 were the in rout of the hole a Few times. At 0640, I climb up to the nest and find one freshegg, probably laid this Am between 0608 + 0630 brouble by \$696. Didn't bring the calipers, but the egg is fairly round, heavily markled,

Acon Wood priter

Dark Hollow (19 May) and had a wildly assymetric air cell. I'll check 1982 + 1983 notes, but this souls like \$696's eggs 0730, both 99 have lad at least one shot at removing the egg (normal) so I think I'll split. 20 May Christ mest with Beth, 1700. 3 eggs (\$696?) @ 24.5 x 19.5 very asymmetric air cell 2 25.1 x 19.4 very asymmetricair cell with pinhole (7696?) 3) 24.2 x 19.9 slightly asymmetric air cell ma-61e, 9695?) Checked nest here 0530. 4 eggs @ 24.5 x 20.1 slightly asymmetric air cell na-61ed (\$6857) checked nest 0900 5eggs (\$ 24.7 x 20.0 no aircell, hearily markled, (\$696?) Checked hole, 1630 beggs 6 27.0 × 18.9 slightly office-ter air cell (\$695?) Expect hatching 2 Jule Checked nest, 5eggs; Egg @ had broke, 25 May p. cumbly for pinhole Nest Empty, Failed at egg stage. Predation? 214-6 13 June * * GROUP UPDATE 1 8584 founds Dark Hollow 7 April 84 (9NB, 7819 of CHIBO Gazeso with him in early April 2 4695, 9696 return to DH 23 April 84 (3) 8824 returns to DI+ 19 May 84 29 July 4 Nestling: banded from very late 2nd nest in Live Out NE of grany

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1984 R. L. Mumme

Acom Woodpecker

Dark Hollow Nest Rosord

See notes: (lutch of beggs completed 23 may O-e egg broke by 25 may Nest Failed, completely empty on 200 2 June

Both 79 laid here

29 July -- 4 Nestlings bonded from very late



Hoorn Woodpecker

Corral Viejo Canyon * * GROUP UPDATE * * 1) CV Grande -- a 8717, 8718 returned here in September 7 1983 & Imonth, present in October with a FNB and 8837 (See Sadys notes) (2) CV #1 -- abadoned 12 Aug 1983 ± 2 months apporthated 3 CV #2, Ot Corral -- Both need a bit more work to figure them out. Sandy saw a bunded bind on 16 Feb at (U#2, nothing much at OK corral. 11 March Quick look hore, 0930-1130. No evidence of any activity at either CUHI or CUHZ. At OKCorral, Lonever, Iflush a farritting Lind as & walked up at 1040, but it had not returned as of 1130. It porched for along time in the trees uphill from the growing before flying off to the east up the ridge. It looked like it belonged here Also, at OKC it looks like the granary may have been in use this year. Not true at CU#2 7 April Abit of luck at CV#2 0845-0920 I find two birds; FNB and 6849 Drage/DGran LPink of from Ot corral! May be more birds here. Also a second u-baded & chused vigorously by the offir 4. The second & then flow off toward Dark Itollow, whene 3584 was advertising vigorously earlier (see DH notes). 8849's preserve it CV#2 leads me to suspect that nothing is up at OK (Giral. Heard no activity from OK (ornal while at CV#2, and a brick watch here 0920-0440 Uhoa, Just as I'm rendy to leave of corral, a

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Corral Viejo Canyon barded & shows up that proves to be old 5769 M /BILT-1961 of Blom 3! However he looks like justavisitor here tamely politing around in the granary for a while, then Aying off, I wo-di- if he is established at Blom 3 ois atlarge! 1015, 20 min at (V#1 reveals no activity here. 115, Denise reports FNB and 8837, but no others at CUGra-de, while Philip + I see FIVB (transming), 3717, 8718 in the trasion zone between CV Grade, Gazebo, Blom 3. Could the 38 717 + 718 be trying to move to Blom 3, + is the quith then separate from the \$NB at (U Grande? 23 April 0745, at OK Corral I find a FNB alone in the grand, the- 3849 Drand / Don-LPink, He was at CU# 2 on 7 April. This PNB is fairly persisted, garricking Occasio-ally and watering to horself t starlings 0830. New developments. 8883 M / Red-Or(N) 1) here. Remarkable, because he may be the only 1983 nestling (other than a few on the strold) to return Can't Figure out who else it could be. Also saw him lata Sceloporus: Saw him tugging at its e-trails, then eating them. He seems well of F with the FNB here. Perhaps. 8849
was visiting from CU#2. No! O950 After watching
at (U#2 I found 2 9NB plus 8843 M repire I the return to OK Corral + Find birds! PNB, 5883, 5849, and 853 M /Red-LBlue! All 4 birds seen

		·		

Corral Viejo Canyon

(23 April) pretty cozy. Looks like a good group. Fairly tame, it spens, too.

now by at least 3 birds, 29NB and 18NB.

Introding here during the brief time I watched

were 8721 from Plague (he introdes at DHollow

earlier) and the longlost 7785 DB/Me-Yel/LB/Me of

1800!

1145, Now at CV Grande where more new developments. I see 8837 or-war/cpik 9NB

plus two CV Grande returnees: 9812 DBlae/BIK-CPIK

and \$808 or / Blk-lbeen, The only bird Fdoit see that Fexperied to see was \$809 who DA-ise saw clearly a few days ago. Perhaps she is at Blomone with Denise at OK Corral, I find that the \$NB of 5days ago is gone, and \$854 m of Gate is here instead, garricking regularly. See Denise's notes

2 May At OK (orral again Power Straggle of Bay may (see Drises notes) has ended, and a \$NB (probably the same one as 23April, wakas to herself ste) is buck. 8849

To 853alsoher, but I dint see 8883

ACU tour: DABLOUT 0550-0B20 at CU#1 FFI-1 BNB
27NB plus 8728 CPINK/Or-Red (1982 CUH1 nestling),
apparently looking quite cozy with the other residents. At CUH2
I confirm 8843 + 29NB, just as a month ago.

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Acora woodpecker

	Corral Viejo Caryon
13 Ju-e	* * GROUP UPDATE **
	CU6ra-de
	08717 8718 More from CV6rade 1 April 84
	(see Blom 3 Guzebo notes)
	3 9812 returns to CU Grander 23 April 84
	(back + forth between BLM1 + CUGR in April)
	CU#1 1845, 1894 1897
(the milet and it is this income particularly was required in the contract of	1 27NB 18NB found CU#1 15 April 84
	@ 3728 returns 15 May 1984
	CV#2
	@ 3813 Disappeared 5 Feb 1983 = 2 months
	2 1814 NS/AB
	3 9815, 9842, 8845 disappeared Nuly 83 - 2 months
er Virelander stedigterschaftliche hab dag schadersprindung zu	9 8844 disappeared 7 Nov 1983 ± 2 weeks
Professor years, and resident and deposits the Section of Section (April 1988) and the	529NB (1898, 1899) move to CU#2 15/4pril 1983
	(8843 may have abandoned CV#2 after Oct Notcher
	OK Corral 1883 1886 1883 1886 1883 1886
	OK (creal 1 Sept 83 = 2 months (possible that 8849 stayed all winter)
	(possisle that 8849 stayed all winter)
	2) 1884 1885 NSAB
	(2) J884 J885 NSAB (3) 3849 3853 8883, PNB Found OK Corral
	15 MAPril 1984: (8849 at CU#2 7/4pril 84)
	F 886 returns to DKC 11May 8\$

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	CV Gra-de NEST RECORD
	Derise reports a 4 looking out of the 82-83 hole.
	Iclinb up at 1800 + find 4 small eggs, ~ 4-5days
	0 23.2 x 18,1
	@ 21,5 x 17.0
	3 22.6 x 17.4
	(4) 24,2 × 17.9
30 ray	Check nest, 4 eggs not yet hatched
1 Ju-e	Check nest still 4 eggs not hatche
3Ju-e	
12 Ju-e	1600 3 healthy basies here
25/4-1	1600, 3 healthy basies here Barded 3 healthy young Jus MAND- MAND!

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CV#2 Nest Record

abouted

19July Walter + I band two nestlings (Jun 959 + 960)
in nest in low dead stus of main granary tree.

Young ~ 20 days old, quite healthy.

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	Westgate
9 March	* * GROUP UPDATE * *
	1) Westgate (858, 8692 9855) abandored 1 Sept 1983
	+ 1 month. All 3 seen / Aug. Clearly abandoned
	by 60ct (probably by 11 Sept as no binds seen
	or heard during acorn survey,
27 March	Artificial growny, 100 acoms installed 20024 March.
	0900-0930 27 March, No evidence of any birds here
	yet. Granary 100ks full.
24 April	1030-1230, It looks like 8626 or, DBlue-wat (N) and
	1030-1230 It looks like 8626 or / DBlue-wat (N) and 70855 D6BPK (N) / D6-BRH (N) are set up here. Neve-
	Saw either ef these birds move toward bate, and they
	son at to be a noting i lengalentle.
24 May	Aquick 100k 0730 produces both 8626 Dr/DAMMAN). ad 9855
	ad 7855 Dom Brak (N) / 11 11
	* * GROUP UPDATE **
	1 8626 7855 Found Weate 15 April 1984
	8626 was at Gate 6 April W Gate 24 April)

Gate

14 March * * GROUP UPDATE **

1985, 9788, 9789, 9791 left group 27April 1983 - Innerk

All 4wre around during power struggle 18-19 April,

see-pripherally for awhile, then never again

(2) Gate (3626, 3627, 3790, 9854, 9856, 9859,

9 NOB (1885), J927, J928) abandond Brown

3 Sept 1983 - I month, . 8627, 9859, 9NB,

+ both juices see- 1Aug. Gake clearly abandond

By 20ct. Some of the above birds probably

disappened before abandonment, but Fenit

22 Marin 1000, I flush two sirds out of squarenail flat, which
fly across Finch Creek and way over to the far
"westgate side" of Corral Field. Don't know if these
are real Gate or Westgate residents, but the

situation bears study

say for su-1

I Fird nobody.

27 March First watch here, 0900, since installation of artificial granary 24 March. No evidence of any body here by 2930.

Looks like the granary is completely full, too.

6 April (6-Fusio- hore the last two days, but lives the story.

1) 24 alorns remain at Gate granary, Oat westgate, on 5 April 2) Looks like 5 birds here, 8626, 8627 FNB, 4854 + 8859 I Co-fined 8626 yesterday M/DBINE-WAT(N) See Philips hotes for 8627, 4854 4859 I Co-fined 4NB. 18+ 349 See together

at one time. Birds using both Gate + Westgate

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	Gate
744.1	
J-1 April	Trying hard here but with minimal success 1030-1230 I find 3627 LPi-K/DBlue and 9859 M/Black
	plus at least a 3rd bird. 8626 soms to have set
	up shop at Westgate with 7855. See Westgate notes
30 April	Finally, success here. Over in the saptree live oals
	in squarenail flut, I tind 8627 9859 plasa
	7NB. This should be a complète cr-sus, what with
	9854 at Ok corral (see Do-ise's notes) and 86262
	2855 at WGate.
24 May	A mazing good luck here. I walk up from Pipolini at
	0730 + find 4 birds perched on the Same brack:
	3627, 7NB 7854 7859, all sien well. 7854
	is back after an aborded attempt to move to
	OK Corral. See my OKC notes + De-ise's notes.
	No sign of any nesting activity
13 June	* * GROUP UPDATE
	@ 8627, 7854 7859 PNB(1885) All found
	Gate 2 April 1984
	(7854 tried to more to OKCO in late April. The
	FNB is alsonost certainly the same as last years)

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	Pipeline
9 Mach	1140 - 1210 no evidi-re of birds here yet.
14 March	* * GROUP UPDATE **
	1887 J888 NSAB
	2 3660 moved back to Plaque 1 Sept 1983 ± Invorte
	See Plague notes
	3 9703 9704 aba-do-ed Pipeline 1 Sept 1983
	Pipeline clearly abandord by 70ct 1889 may
	nave disappeared before abandonnet. He/she was
	harging out at Plaque in late July
10 April	Here 1945-1300, no evidence of birds have
24Avil	Hereat 1215, I find 8660 OBlue/Unite, who was as
	Surotagur, also here is 7703 rellow / Manue Perhaps
	9705 will show up, too?
24 May	Nosody here in passing. No Sirds seen at Pipeline
	since 24 April, + 6600 hw Leen back at Plague

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		Warp 5
	9 March	First trip up here since last summer, to confirm what
and the second s		was easily anticipated. Warp 5 appears to be abordored:
	and the state of the same of t	Nosign of acorns in the granary, watching from 1110-1140
e manufacture de la companya de la c		no trace or evidence of live birds here, either
	14 Mach	* * GROUP UPDATE * A
	THE CONTRACTOR OF THE PARTY NAMED AND A PARTY NAMED NAMED IN	6 1863 1864 NSAB
	- Makerian to repose - Major Lees, I major make believed scored distings (* 1 distinction)	2 Warp 5 abordanced 15 Sept 1983 = 3 months
		A wild guess, really, 8636, 7NB, and a 3rd sind
nderkananses enseranas		(8528?) last seen o- 23 March
	10April	Scarning the treetops here from Pipeline, 1450. No
		sign of any birds here yet
	15 May	Pan foud the leg + Feathers OF 3528 M/DBlue-DPI-K
		today, along the creek between Road 1 + Pipeline.
		The remains were obviously recent! I suspect 3528 (ad
	W. Sandah Salah and an ang kalabahan an an ang kalabahan an ang kalabahan an ang kalabahan an ang kalabahan an	maybe 3636?) harreturned here. Need to do a water
		or two at Wa-p 5.
Mark announcement of the second secon		* * GROUP UPDATE **
		0 8528 Returned W5 ~ 25 April 1984
		3 8528 Found dead W5 8 May 84 - I week May
The tax and any any any any any		See Derise's notes on matches here 23+24 MANNING.
		1660+ 7685 (of Gate) here on thosedays
		· Probably both have moved here, though 8660
14 194	61 to 14 -	shuttles to Plaque i- the afternous
de	leted	MANAGOR FOLWANDEN DEN
The Management of State of Sta	Mue	No, 9685 looking settled at 1500 with 829) + 9601

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	n.
	Road
15 March	
	1 8294 disappeared 7 May 1983 = 1 mo-th.
	Last seen on 10 April, certainly gone by 5 June
	1876 found dead on road 29July 1983
	3) 7269 disappeared 6 Dec 1983 = Incer.
	Castsee- 28 NOV: Gore by 14 Dec (Sady Spon)
	4) 8580 disappeared I Nov 1983 + I week
	last seen 200ct, gone by 10 Nov
	(5) 8672 disappeared 4 Dec 1983 + I week
	Last seen 0- 25 Nov: 60-e b-, 14 Dec
	6 9578, 3579, 7804 disappeared 1 Sept 1983 = 6 weeks
	all last seen. 21 July: Go-e by 13 Oct
27 March	
	Gla-ring here while checking Fi-ch: A hire Surprise: 7269 M is bark! She
	looks fine, except for what scens to be a slightly injured left eye. Also saw B'486
	injured left eye. Also saw B'486
	and a 9 that I suppose is 9383, Missing abad
harkad a sawa sandana, arasida dilakan arasida di manga di manga di mangan di mangan di mangan di mangan di ma	and a 4 that I suppose is 7383, Missing abad Yellow/NB MMADOWAX Yellow-Dorn/M. Inted more data to co-fire
	that, though.
13 April	Aquick glarce here, I see 5486, 7269, 7383
	i-the sycamore grangey. All present rakou-ted for
20/pil	Routine granary census. 3486, 7269, 7383 all seen well.
	No evidence of nosting activity, and the birds seem
	to have a few acorn scraps remaining. 9269's left
Hray	Gravary (P-sus, but not routine: \$578 Yellow/wht-com
	appears outofnounce, looks cozy with the others here



Road 1

30 May Lots of developments here, Yesterday afternoon and this morning I Find 8486 9269 2383 plus 0579, 6580, 8672, 7804! Now, Old homeweek. \$578 might have been here except she was taking partina minor poner struggle at Plague and somehow badly injured her wing. Walter found her in the Lower Barn area and took her to the aviary 0- 28 May (see Plague notes), No Pride-12 of a nestat Road /

13 June ** GROUP UPDATE **

- @ 9269 Returns to R1 20 March 84 (First see there 27 March)
- 5) 9578 Returns to RI 4 May 84
- 3 9578 Removed 28 May 84

(Apparently injured in Plaque Power struggle: Placedin Aviary)

(4) 8579 8580, 8672, 7804 return Blamay 84 (8580, 8672 at Road 3 27 March - 14 April)

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Finch 9 March Watching 0940-1000: No sign of anybody returning have yet. In fact, I saw a Flicker working on the Finch 80 and 82 nest hole. Bad sign. 15 March Markage * * GROUP UPDATE ** O First (863, 866, 9541, \$542, 9543, 8613, 8616 9816) aba-do-ed. 1 Sept 1983 - 1 month Complete co-sus there (except 9816, see-22 Nu-c) o- 9 July. Birds were genting hard to find (samme i- a couple of tries in early August) by the end of July, Clearly gove by 80ct 27 Much First watch here since installation of the artificial gra-ary, with 100 corns, on 24 March. 0900, Nosign of any birds and the "granary is still full of aroms. 1110, 43 alors still remain in the styratoam. The big news is, First has birds! 8542 " " / " here plus another bird French as M/Yellow-(Red or DGra) which might be 8616 (though I first thought it was 2) Interestingly they chased out two i-trades which were undoubtedly 8669 + 9601 of SHILL Both were at SHILL yesterday 1205, 8542 garricks from AUR Nh' corner of bridge, a-din Flies 7269 M/unt-DBlue. This may have been the bird I saw earlier. Right now it looks like 854213 all alone.

Bud Cruziness here: 8542, Plus 7789 Gm. Blk, Yellow OF

Gate. 9789 is chasing 760 | (of 1500-SHill-whatever) all over

the place. Constant, continuous prosistent chasing Sofar \$789 is holding the upper hand, but \$601 is persistent. Auxtine \$601 manages to perchasora Few seconds she garrieles! \$601 was missing at \$111 yesterday, liptones of the continuous prositions.)acoms

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Acor Wood pecker

	Fireh
10 April	After the two-voil here yesterday, things are quiet when
	I arrive at 1400. Just had a - i-to-esting thought: 9601
	and Illuvi, who were squabbling so violently yesterday,
	es- are sisters! Both were offspring of Gate's 8626,
	83627, 7519, 7601 i- 1980, 7789 i- 1982. 9601
	ever helped feed 9789, Sefore \$601 moved to 1500
	I suspect they have never been introduced, and they
	were not reared together.
	1410, 8542, 9789 both here, very calm, no sign
	of 9601 or other intruders. I Acoms left!
13/April	Well chages again at Finch I find out the following
	1) 7601 is back derawa and she is in control. No sign of
	7789. 9601 was aakain, vigorously with 8542, and
	chasing out intruders, one of which was 7685 LAUR-MA/LBlue
	her sister, ad 9789's sister from Gate. Man,
	what a loi-cidence. Also a 9 NB around. Lots of
	vigorous chasing, a "mini pour struggle"
	(2) One of the oldones is back none other than
	363 " " " He is definitely here, but
	seems to be leceping a loner profile than either
	3542 or 7601. Did stem him exchange wakes with the
	other two birds
19/April	Here at 1300 after Philipreportea a power struggle in progress
	17 April, Very culm, a but cool + windy.
20 April	Here with Philip + Beth, 1030, a GIVB is in control here.
	8542 and a second & (assume 863) also seen. This is
	5542 and a second & (assume 863) also seen. This is Finches 3rd 99. A fair amount of chasing earlier, but how quite calm.
	The state of the s

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Acom Woodpecker

Finch.

24 April

Well, a-other change at Finch. Philip reported a flareup of the PS on 22 April, but the FNB was mui-taining control. Here at 0930 I find 8542 and of allbirds, 0789 M/6m-white who was the flare for at least a few days earlier this month. No sign of a FNB. Didn't see 863, but Plilip reported him here 2 days ago.

MOAN! I quick look here, I see 3 birds, 2 IDEA.

3542+ a 4NB! Will it ever cease!

4 may

18Jue

** GROUP UPDATE **

- 1 8542 founds Finch 2 April 1984
- 3 863 returns to Finch 13 April 1984
- (3) PNB (1901) moves to Firsh 25 April 1984
- (\$789, \$601 Sothat Finch i- Wate April

 9601 o- 9 April, \$789 o- 9 April + 24 April

M. formicivorus

MacFlat

9 March 1000 - 1020, No evidence of any birds here yet.

15 March * * GROUP UPDATE **

0 1902, 1903, 1905 NSAB

2) MacFlat abado-ed 12 sept 1983 + 1 month 8282
Saw SE40-1 Saw 8540 and a juvie sapsucking 4 Aug. Garby 20 oct Many of these birds may have

disappeared before abardonnent

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Acorn Woodpecker

Road 3

9 March 1025: Nothing happining here yet: By 1055, no sinds see- or heard.

15 March

** GROUP UPDATE **

- 1) 1898 not seen after bading (NSAB)
- (2) Road 3 aba-do-ed 20July 1983 = Iweek.

 Birds (8654, 8792, 1897) last seen 6-7July.

 Nobody seen in 9 bours of observation

 14, 15, 16 July, then 2 Aug. Thus, fairly clearly a very early abandonment (by 8654, 9265, 9710, 8792, 9794 1897)

Descriptions here again, 0850. 0930 Holy (ow! there are Lirds here. One is a \$1NB (rats!) but the M/DBIME Second is a banded of who I read as Red-Vellow/Orange or something like that. Looks like a pair here.

Abit of wakains, and both the of the female poked around in the granary a bit. Incidentally the limb of the sycamore that overhaps the road has broton in half (at the site of that hurrible nest hole they were building a few years ago. This hears the loss

of a few hundred storage holes.

Who is the 8? (a-t square him with arrowed,
the 83 field list. Perhaps a bird banded by walter
in 1980 on PO Hill? Strange combination, so that
could be. Yes, checking the color list, it seems
almost cortain that the 8 is \$7552 Rea-Tan/ Red
borded by Walter at PO#4 in 1980

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Acorn Woodperker

27 March First watch here since 24 March, when Philip + I installed a piece of styrafoam with 100 acorns. There are 3 birds here: Two 88 in the Valley Oak as I drove up, but I didn't get bands. Plus a fuhose legs I did not see either 8580 M/Black + 8672 OBlue-Tel(N)/M OF Road 1! Saw 8672 extract then eat of of our acorns from the Styrafoam. Also the RWB is here. She has been in both the 82 + 83 nest holes Neat! All 3 shased a Starling at 820, 0825, many pounding on the styrafoam. Great! I suspect that the two 88 forced 8552 back off to PO Hill. 0830 check the "gra-ary". Man, only - 45 arons left in the Styru Foam! Some have Probably been restored, but the birds have taken to it well. 6 April Aquick watch here, 1015-1100. The situation here sens to have stasilized. 8580 m/Black and TNB seehere. No acoms left in the sytratoan (gove by 31 March according to Philip 0672 not seen today, but wasn't a good watch Tried to watch here but birds are-t spadimuch time here. I did see a PNB and a second bird (is 3672 gone) but they spirtnest of their time flycatching placulier on this hot sunny day. Did see a pair et Pigmy Owls investigating
the "studard" nest hale

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Acorn Wood pecker

Koad 3 14 April Added 100 acors here during a mini power stuggle Without scoper biros, couldn't learn anything. Back at Lusk for roosting I see FNB+ 8580, but no sign of another bird. 19/1-pril Philipreports culmat Road 3 BBN BBN BANGER MARY, I come by at 1315, 19 14pril, see no birds and only 5 acros renaining inthe styrutoun granury. 95 acoms removed/eated in 5 days by 3 binds, which is roughly 6 acoms/bird-day 20 April Correction 17 + 20 April Philip reports & 654 and 8792 (missing L Blue band) here at Road 3 with a FNB. They must have moved here about the time of the PS o- 14 April, Do. + know what 12 June Found nect here: See nest record. 14Ju-1 * * GROUP UPDATE () 7NB(1902) Founds Road 3 20 March 1984 2 8654 6792 Return to R3 17 April 1984 (8552, 8680, 8672 variously at Road 3 during lake March + Rarly April)



Acor Woodpecker

Road 3 NEST RECORD

12 Jule 1130 bird looking out of "traditional" 1980-82

nest hole

1200 Opeled hole. 3 eggs, ~ 2-3 days

① 26.3 x 20.5 (slightly cracked Epipped], may not hatch)

② 24.6 x 19.0

③ 25.1 x 18.6 (hatch ~ 22 Jule, had 16 July)

27 Jule Checked hole 3 basies 1949-951. One very healthy: almostredy to fly: Others see

One a runt

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Acorn Woodpecker

School Hill 22 March Up here 1405, after Jin reported hearing a bird up here on 20 March. 1545, Slow, but for sure at least two (maybe 3) birds uphere. One is undoubtedly

By 6000-Bluck/6000-white, barded at Low Itay in 1982, man one of the 3 1800 Breeding 66 last year. Also present is a bird that F didn't see sex of, but may be 9787 Red-rellon/M also of 1800! Need a better nation up here to be sure of her, though. Both birds sporta bit of time politing around in the granury, and eating buds tratkins from the blue outs NW of the granary. 5 April See Philip's notes for details of comings & goings following the acor addition. Uphere at 0830, Two new Still residents confirmed: Both are old Drage-DBINE/unite friends. 8669 M 100-DBINE (1981 SHill nestling, then from Y) and 9601 m /whr-Lune (1980 gato nestling then 1500) Great. They seem to be a good unit. San one of the birds eating a bit of along. Only 6 along left in the artificial gra-ary, honever this observatso explains walter's observation of 6669 and a fat Tyesterday. 1/April School Hill has charged again! 0830-0930 Ffint 8669 wakuing + traveling around with a RNB. 7601, who was intruding at the First on 9 April, was also here briefly, Also saw 8'769 m / Black-Red former of Bloms, who I saw intrading recently at OK Corral

14 June MAXISTO

Acorn Woodpecker

School Hill

6 Ju-e * * 6 ROUP UPDATE * *

- @ J872 NSAB
 - (2) School Hill ABANDONED 16 Aug 1983 2 months

 (386, 3402, 9260, 3754, J873, J874)

 Birds last seen 23 June: Missing by 10 Oct

 ** GROUP UPDATE **
 - 1 86 8402, 9260 fourd SHIL 1 May 1984



Acor - Woodpecker

School Hill Nest Record

3/ May Perped into 1983 SH nest hole: 4 basies just hatched (egoshells present), ~ 1-2 day. I

Should band ~ 20 June

June

Cheeked hole again. Down to 2 nestlings 17 June Nest failed! Empty at 0630:

	,	

Acorn Wood pecker

	School Hill West
4 May	Uphere 0930-1030, Ifi-d at least 2 birds liere!
	The fis not banded, and Ffailed to get a look
	at the 3'
6 June	** GROUP UPDATE **
	O 1860, 861, 862 NSAB
	(2) SH West Abado-ed 1 Sept 83 + 3 months
	A wild guess, really but no birds were present
	here during the winter.
	(8530, 8756, 9758, 9NB[1874] PNB[1875])
14 Ju-e	Here 0830-930, day Again I spe only the & NB
	4-d not the J.
	** GROUP UPPATE **
	1) FNB 3 (??) Founded SITW 1/ay 1984
	we will have to wait to see who the or is.

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Melanerpes formicivorus

Poison Oak Hill

3 March Up here with Beth, 1600-1700 hrs. We find no acorns and no birds at PO#1. The granary had lots of acorn shells in it, but it was hard to tell if they were fall 82 acorns or fall 83 acorns. I suspect the former. At any rate, no evidence of anybody around. At PO#2, pretty much the same situation: No acorns, and no real sign of any activity. We sat down twatched + state for awhile, though, and one AW (sex + bading status unknown) cruised through the periphery, heading that in the general direction of PO#3+#4. I suspect that that bird did not belong at #2, and that both PO#1 + PO#2

are abandoned, and have been since the fall.

\cdot	

Acorn Woodprike-

ARF too Watchinghore, 0800 - 0930, at least 1 onst 9/VB are here. Both wire seen carrying food (!), perhaps off toward the 83 nest hole. More work is needed here honever bJu-e * A GROUP UPDATE ** (1) 1890, 891, 892, 893 NSAB @ ARFtoo ABANDONED 1Sept 83 = 2 mo-ths Aguess, but BNB, FNB, 8800 all here feeding You-, i- early Jus. (JNB[1852] PNB[1888] 7687, 4798, 8800) More work; 0700-0800: ARF too probably doesn't have 8 June a nest. Saw the JNB fly to the "high" perch tree with Food the eatit himself. Had him in sight from 0715 - 0750, he did nothing except preen. No sign of a 4 today

14 Ju- e

** GROUP UPDATE **

DPNB, BNB FOUN ARFT 1 May 1984 - 1 month

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Acor Woodpecker

	- The state of the
	ARF
3 May	
31 May	Heard birds hear on my way up to the Amold. I see at least 2 birds here while watching at ARF too
	c
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Acorn Woodperker

Black Oak 4 April 0800, up here nith Denise + Philip, a mini-powerstruggle going a at Black bak. The situation is 1 4 u-baded birds (at least 2, probably 399, and 18) have control Of the main granary area, and the perch trees to the west 2) The Castern 20 gravary is occupied by at least two Du UA299778 +779, plus the possibility of 0915 They do-+ look all that dedicated, though. Also seebeing chased from the 1° area was 9568 of Al. Derise may have seen 8736 from 5050, + I may have see. 6777 from Lambert. No arong here, maximum of 9 bi-15 Meser present and not much action. Progress (D) 2 old Black Oak 83 & 8 689 Or funt and 6426 BIK/ oraze, ad 3 UAZ 99 (9778, 779, and 4780 are wakaing together in the 10 growy area. They seem to have firm co-trol of the main storage 2) Waltaing together in the 2° area are 6'736 of Sobo plus 39NB. They have loose control of the 2 area and the 1983 Poiso- Oak nest hole. At least 3 other indepolet NBS (18, 29?) are around, mating a total of 12 (atleast) birds hare. Falso saw what has to be old-timer 8102 Tellow/NB, a very Un-heavily mustucked S. & He and I think 332' + 8691 we all in the 2 area briefly 0811, 16-Fira 8102 rellowr - i- +4, 1° grana, a-la with 8424, 8689, 9778 779 780, He's not that active Imagnare co-fused 8736 to- 8321/691

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Acorn Woodpecker

)	
	BlackOak
25 April	Danin! Up here 0815-0915 hoping to see the 3 99 from
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	ult 8426 + 8102. 8321 Or 1081ac-rel(10) also
	Seen, but not 8689 or 8691. No intuders
Dom!	things calmo-avery windy day. Did see \$ 102 take
	a perkat 8426.
21 May	0700-0930 I Find Just 2 PNB (though the third may
	Hill be around) 8102 Yellow/, 8426, 8321.
	Bitsh One FNP was showing a bit of interest in the
	poison oak hole, but clearly no nesting yet. The
\	birdsmera also over at Biorca briefly
6 June	** BROUP UPDATE **
	6 8743 disappeared 5 March 1983 + 2 morths
	Last seen 14 Dec 1982, certainly gone by late May.
	5 Juns 929 930, 931 all NSAB
	3 Black Oak Abado-ed 20 Sept 1983 + 1 month
	Saw 9741 there in passing on 23 Aug.
	Birds certainly gone during Sandy's watches Oct-Nov.
	(8102, 8426, 8321 8497, 8689, 8691, 9713
	9741, 3742, 3744, 9829, MANTER 9680,
	@ 9505 returned to Al 10 July 83 + 1 month
	Back 5-, 23 Aug, lastat BO 26 May
1424-0	(2)32NB (1906, 1907, 1908) FOUN BKOK 20April 84
)	(8) 3426 8102, 2321, 8689 Four BKOK 20 April 84

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Acora Woodpecker

		SOBO.
	4 April	Aquick walk down here with Derise still a few mons
	1	Aquick walk down here with Derise Still a few mons present in the granary, plus 7 cBlue - Black / LBlue.
	6 Ju-e	* * GROUP UPDATE *+
		@ \$659 disappeared 25 may 83 t 2 weeks
		last sce- 7 may 83, & missing 16 June
and agraphy in		

Arnold 1

6 June ** GROUP UPDATE **

- 1 7505 returned to Al 10July 83 1 month. She was back hime for sure 23 Aug.
- 2 Assurationappearent 3679 disappeared INOV83 Ineelo Last seen 17 Oct, go-e by 15 Nov.
- 3 4761 disappeared 10 July 83 + 1 month Last see- 26 May, go missing 23 Aug
- @ 8762 disappeared 27 Dec 83 ± 2 neeks Castseen 10 Dec, gone by 17 Jan
- (5) 826, 8827 disappeared 10 July 83 1 month Last Spen 26 may missing 23 Aug
- 6 8679 returned (10 to AI) 2/May 1984

	,		

Keep Out

6Ju-e

** MARANON GROUP UPPHTE **

Dépos disuppeured 1 Nov 83 ± 2 days Last seen 25 Oct gone 3 Nov

2 7567 disappeared 1 Nov 83 ± 2days Last see- 25 Oct missing 3 Nov

Last seen 25 Oct missing 3 Nov.

(3) 1901 disappeared 24 Aug 83 ± 2 months

Last seen 24 Jule, missing, 24 oct.

9900 last seen on 25 April: 8706+8899 last seen on 1 March

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Lambert

2 Jan Up here on a beautiful warm day, 1430. Cambert does indeed seem to have been reoccupied by the old residents following the addition of ~ 1500 acoms. I flush two Lirds walking up, one of which is 7720 Red-Yellow/ Red. Didn't get a look at the second bird, which exchanged wakus with 7720. Still a

decent number of acors left in the granary. 10 March 0845: If (ush 35i-1s, then spot 4 perched togsther in the distance after setting up the blind here. 1100, after bailing out of the blind at 0930. I have a bit FNB, that was chased a Lit by 9720 but not much. Earlier, while in the blind I saw a (the?) FIVB chuse somebody from the Lambert area. Also, one of the 4 birds I saw at a distance was a & Loneen - Black/white which probably was 8546. Larbert is ranging all over the place: Saw 8624 West of BBQ, well-uest of keep Out later. Very few acoms remain in the growing at Carbit. I also could find no stores in the BBQ granary, which has lost a lot of storage limbs since the last time I looked at it In short, Lambert needs more work, but

it will be difficult given how rarely they sit in the gra-any and how widely they range.

12 March Good luck here today 1045-1145. Down around keep Out I Black/white-Lbrerfird 4720 and the long lost 8777 2720 and astorber two other birds up toward BBQ, where

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Acom Woodpecker

Lambert

(12 March) I Finally ID SS46 Com-DDue/M. As suspected by Sandy, S546 does indeed to have an injured left eye with dark iris. The right eye seems fine. No sighting of 8624 today, but Canbert seems to contain 4 sinds.

3546, 3624 9720, 8777.

6 June ** 6Roup update **

① Juvs 894, 895, 896 NSAB

② 9775 disappeared 1 June 83 1 /wee/t

Cast seen 23 May, missing 9 June

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M. formicivorus

tanny Arnold

Here with Beth, 1300, looks like the situation described by Susan + Sandy is still i- effect 3 79 are here (9834 Red/BIK-white, (9796? M/Light-Dork?) and third & L-D /m, presumasly the one barded by Susan). All were quite co-spicuous flycutching occasionally moving acorns around + working stores. Also seen less conspicuously were two do, one of which was 3681 rellow/m of UAZ. He was seen sitting on an acons Storage limb with 7834 with the other two 99, The other I was seen only once, and bands were not seen, but it had a flut head and long bill similar to that of 0123 of UAZ. I suspect that these two 00 are still stattling backt forth from UAI+ FA, Athing intrading & (barded, but not identified) was hore brighty as well, at which time all fire birds rallied to the defense (all five residents spen simultaneously at that

12 March At 0900, Philip + I release the 3 FA 88 (8835) 3797, 3940) back at Fanny Arnold. All 3 flew strongly to the gra-ary area. Followed by wakas and a few chases the details of which I could not ascertain 3940 may not actually belong here as there was no indication of a JNB have before the ambush. He may be just a wayward rooster.

1030: Seems like its over. The 3 88 seem to have been remembered by the 79, and 8681 seen hanging out on the periphery Aviding 88 seen euting catkins. Seems like its all over, notes

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Acorn Wood pecker

	Fanny Arnold
6Ju-e	** GROUP UPDATE
	The second secon
	1) 9939 barded 7 Nov 1984 2) 348 + 8797 removed 7 Nov 1983
	3 8835 removed 29 Nov 1983
	(F) Warm 8797, 8835, 8940 returned to FA
	12 march Many 1984
14/4-e	
104	(5) 4939 moves to & LAZ 15 April 84 t 2 weeks (Last at FA 17 March & First at LAZ 15 April
	(cast at 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1

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1984 R.L. Munme Acora Woodpecker Upper Arnold 2 6 Jule ** 6 ROUP UPDATE *

① 8590 disappeared 15 Aug 1983 ± 3 mo-ths Last see- 26 May 83 gone by 6 Nov 83

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Acom woodpecker

	UAZ NEST RECORD
3 May	
	stud below the granary. 4 eggs, ~ 5-8 days
	old. First nest of 1984. Should check again - Ineck
18 May	Checked the nest 1800: I hestling, ~ > > days old.
	Prett-/ poor Notrace of other eggs or young.
	Should band here 2 June
4 Ja-c	NEST FAILED!
	I dead (fresh) abbité nestling in nest, probasi,
	died 2-3 Jule. Very sturted development,
	gizzard full of storest grit, but otherwise empty.
	Small peckholes o- left fla-K.
anne Mallache, de als et alle et als et	

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Acor Woodperter

	& LAZ
	At least 4 Sirds plus alores still remaining at Louis Arnold
	2. I Saw 8611 and 8 100 698 and Philipreported
	7783 and possibly a 7NB
6 Ju-e	** GROUP UPDATE **
	€ \$637 disappeared 5 Nov 1983 ± 1 week
	Last see- 25 Oct gone 15 Nov
	@ 9697 disappeared 24 March 83 + 2 weeks
	Last see 10 March 83 missing 6 April
	3 1877, 878, 879 NSAB
14 June	(4) 9939 moves to LAZ 1 April 84

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Acorn Woodpreker

Bianca

4 April Watching, 6900. Bianca was occupied (Stored acorms

present) during the fall, but now I'm not so sure.

A GIVB was poking in the granary when I started, but then
a second Lind Borg My Light which could have been

Q 739 of SOBO, came Ind I the same, then flew off
on a becline toward SOBO

O935, now 2 BNB here popping in the granary.

They fly off at 0940. Didn't look like they belonged

here. Looks like Bianca may be abodored tup for

grabs. No acoms present here now.

15 April At least 3, maybe 4 Sinds hore at 0836

21 April Black Oak birds here, Bianca Still seems up for grabs

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Group: Plague

Melanerpes formicivorus

GRANARY ACTIVITY CENSUS

Date: 20 April 1984 Time: 1440 - 1640

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GRANARY ACTIVITY CENSUS

Group:	Plague
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Date: 21 Ap.: 1 1984

0850 - 1050

Time

Activity

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INTRUSIONS

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GRAMARY ACTIVITY CENSUS

Group: Road 1

Date: 20 April 1984 Time: 0835-1035

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GRANARY ACTIVITY CENSUS

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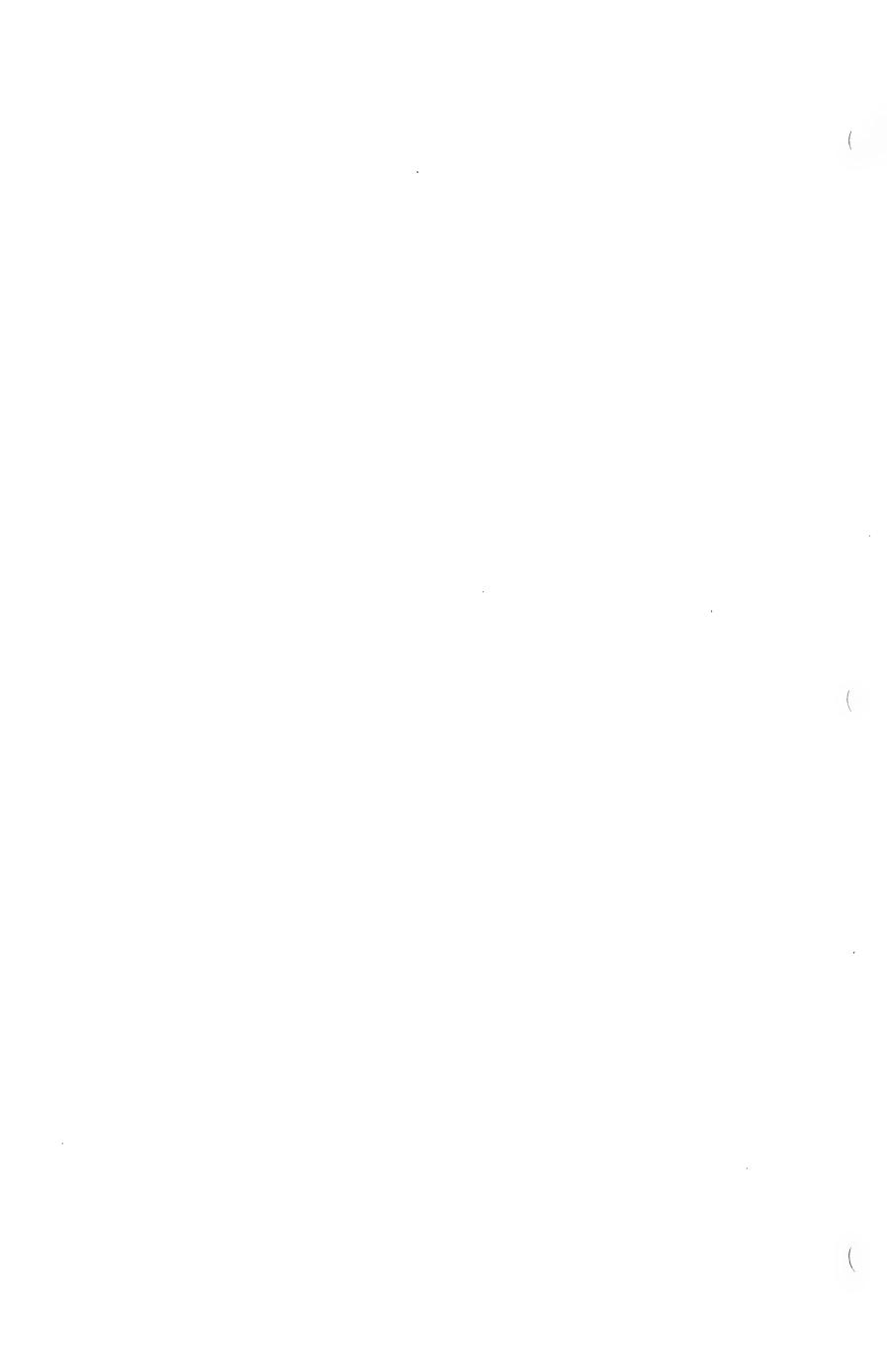
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GRANARY ACTIVITY CENSUS

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GRANARY ACTIVITY CENSUS

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